

液晶显示器-电视

底板：N66C

型号: LA22B450C4HXXZ
LA22B450C4HXZK

维 修 手 册



薄膜液晶显示器电视



LA22B450C4H

目录

参阅 GSPN 维修手册（翻阅封底）获取更多信息。

目录表



GSPN (全球维修合作网络)

国家	网站
北美	service.samsungportal.com
拉丁美洲	latin.samsungportal.com
CIS	cis.samsungportal.com
欧洲	europe.samsungportal.com
中国	china.samsungportal.com
亚洲	asia.samsungportal.com
中东&非洲	mea.samsungportal.com

中国印刷
P/N: BN82-00635A-00

3.拆卸和重新组装

维修手册的这一章叙述LA22A450C1H液晶显示电视的拆卸和重新组装步骤。

⚠ **警告：本显示器包含静电敏感器件。处理这些部件时应小心。**

3-1.拆卸和重新组装

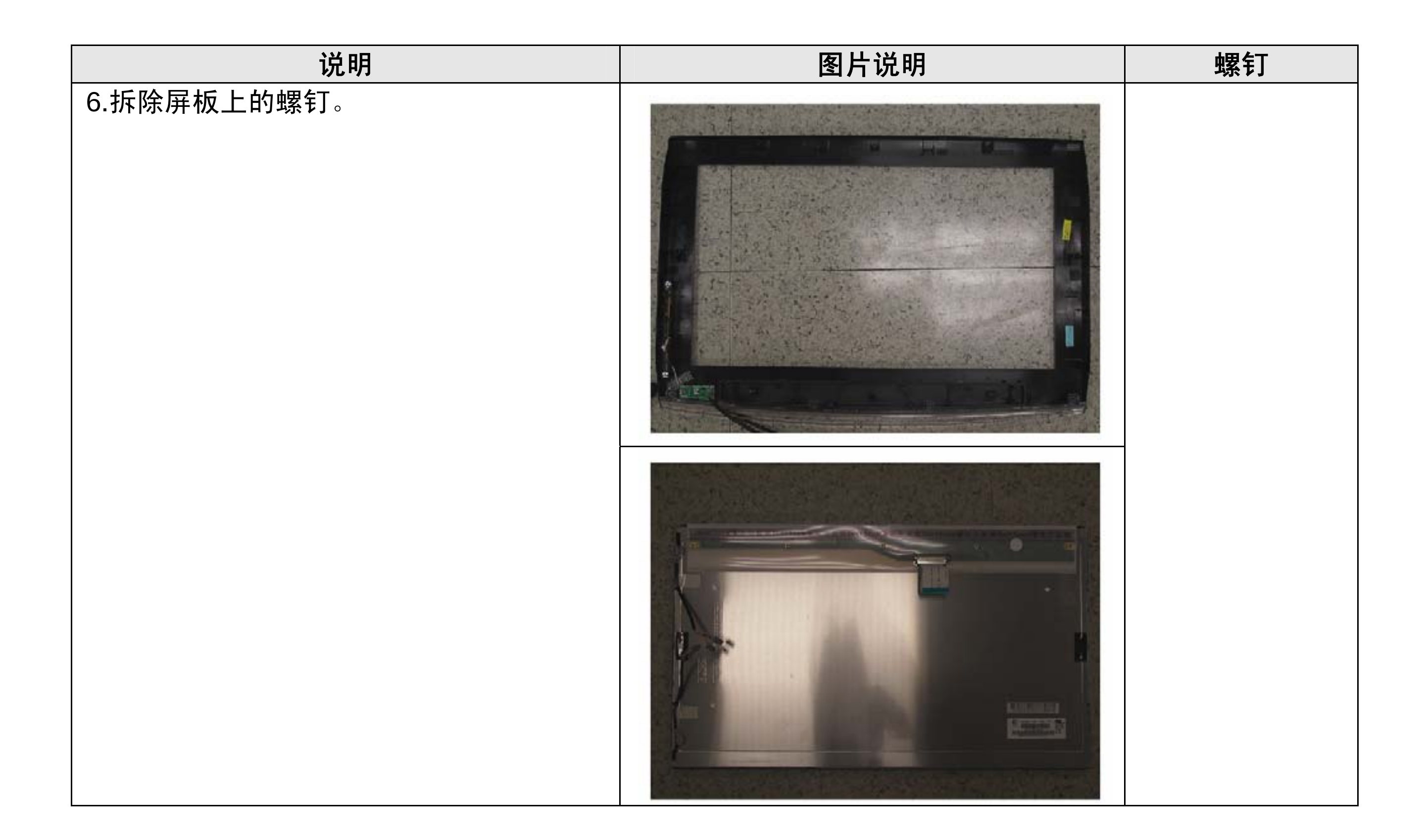
⚠ **小心：**1.拆卸前，要断开液晶显示电视的电源。

2.小心遵守以下步骤，不得使用任何金属器具拆卸本产品。

说明	图片说明	螺钉
1. 将电视的面朝下放在垫有软垫的桌子上。 拆除底座螺钉。 拆卸底座。		x 3
		x 4

说明	图片说明	螺钉
2.提起后盖并拆卸底座。		
3.拆卸底座架上的螺钉并提起座架。		

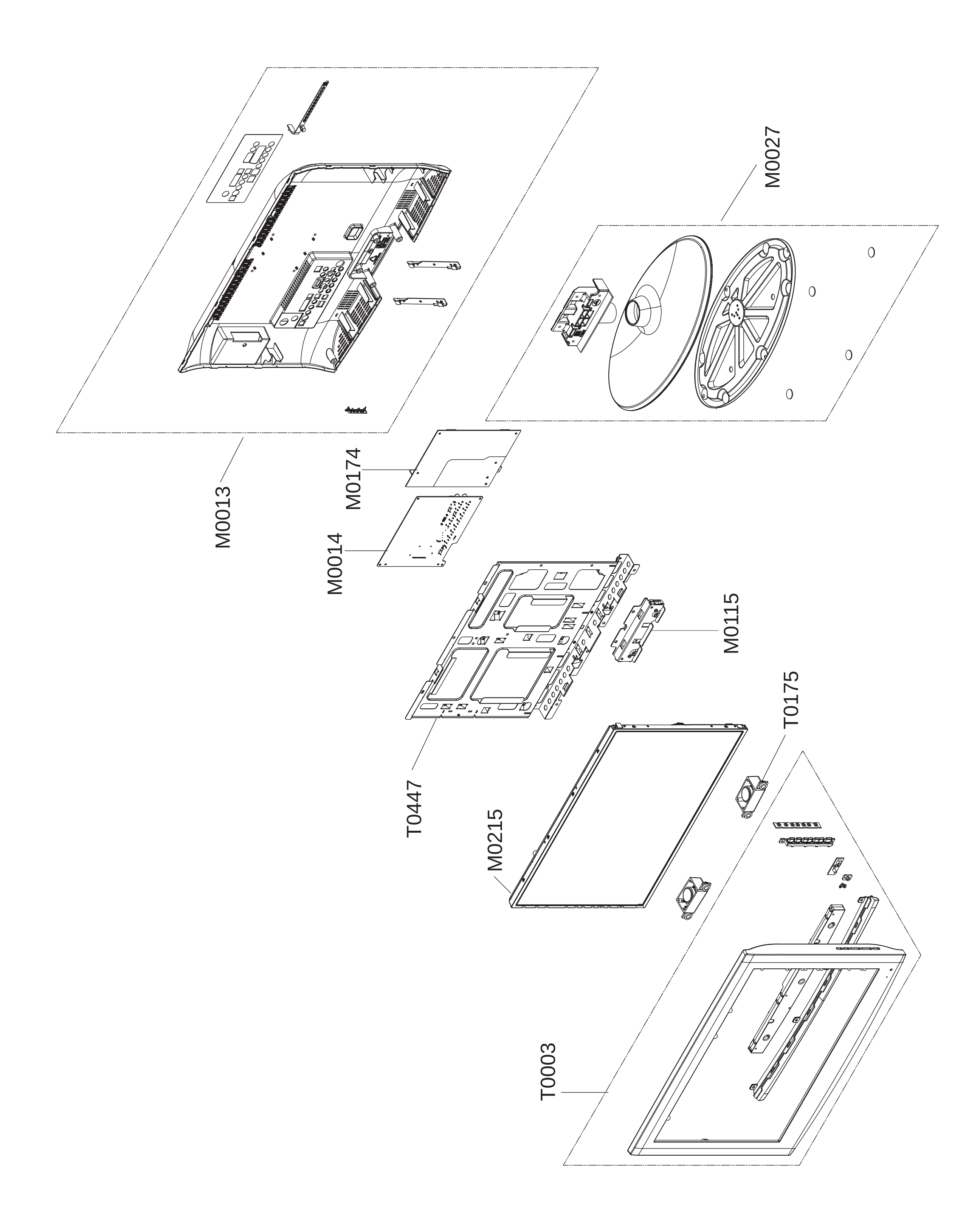
说明	图片说明	螺钉
4.断开板面上的所有接线。		
5.拆卸螺钉并提起液晶显示屏板。		

说明	图片说明	螺钉
6.拆除屏板上的螺钉。		

※ 重新组装步骤与拆卸步骤相反。

5. Exploded View & Part List

5-1. LA22B450C4H Exploded View



5-1-1. LA22B450C4H Parts List

Location No.	Code No.	Description & Specification	Q'ty	S.A/S.N.A	Remark
T0003	BN96-10015F	ASSY COVER P-FRONT;LB450 22,LO,ABS+PMMA,	1	S.A	
M0013	BN96-10022B	ASSY COVER P-REAR;LB450 22,HIPS,HB,BK500	1	S.A	
M0215	BN07-00620A	LCD-PANEL;V216B1-L01	1	S.A	
M0014	BN94-02771A	ASSY PCB MAIN;LA22B450C4XXD,LB4C	1	S.A	
T0447	BN96-10033E	ASSY BRACKET P-PANEL;LB450 22,SO,LO,CMO,	1	S.N.A	
M0174	BN44-00232A	IP BOARD;IP-54135T,L650,1.4~2.8mA,6.8~8.	1	S.A	
T0175	BN96-06823E	ASSY SPEAKER P;16ohm,4pin,3W,R:400 / L:2	1	S.A	
M0027	BN96-06463F	ASSY STAND P-BASE;22,26L450,ABS+PMMA,HB,	1	S.A	

5-2. LA22B450C4H Parts List

Level	Location No.	Code No.	Description & Specification	Q'ty	SA/SNA	Remark
		LA22B450C4HXXZ	LA22B450C4,N66C/22AC4-G4C,22,LCD-TV,MALA			
0.1	M0216	BN90-01510A	ASSY STAND;22L450,UO,,,	1	S.N.A	
..2	M0027	BN96-06463F	ASSY STAND P-BASE;22,26L450,ABS+PMMA,HB,	1	S.A	
...3	T0081	6002-001294	SCREW-TAPPING;BH,+,,M4,L16,ZPC(BLK)	4	S.N.A	
...3	M0081	6003-001239	SCREW-TAPTITE;FH,+,-,B,M4,L10,ZPC(WHT),S	4	S.N.A	
...3		BN61-02954A	BRACKET-STAND BOTTOM;23,26 BORDEAUX PLUS	1	S.N.A	
...3	T0920	BN61-03680C	GUIDE-STAND;22,26L450,ABS,V0(NT),BLK	1	S.N.A	
...3	CCM1	BN63-02183D	COVER-SHEET;Rhcm,PE Vinyl,T0.05,680mm,20	0.4	S.N.A	
...3	T0004	BN63-03122A	COVER-STAND BASE;23,26R81,ABS+PMMA,-,-,-	1	S.N.A	
...3	M0126	BN73-00052C	RUBBER-FOOT;LCD TV,CR RUBBER,T2.0 DIA19,	4	S.N.A	
0.1	M0001	BN90-02021F	ASSY COVER FRONT;LB450 22	1	S.N.A	
..2	T0175	BN96-06823E	ASSY SPEAKER P;16ohm,4pin,3W,R:400 / L:2	1	S.A	
..2	T0003	BN96-10015F	ASSY COVER P-FRONT;LB450 22,LO,ABS+PMMA,	1	S.A	
...3	M0081	6003-001188	SCREW-TAPTITE;BH,+,-,B,M4,L10,ZPC(WHT),S	1	S.N.A	
...3	M0081	6003-001188	SCREW-TAPTITE;BH,+,-,B,M4,L10,ZPC(WHT),S	2	S.N.A	
...3	M0279	AA63-01637A	FELT;50P9,FELT,0.5,10,80	1	S.N.A	
...3	CCM1	BN63-02183D	COVER-SHEET;Rhcm,PE Vinyl,T0.05,680mm,20	0.47	S.N.A	
...3	M0112	BN63-05234F	COVER-FRONT;LB450 22,LO,ABS+PMMA,HB,BK23	1	S.N.A	
...3	T0059	BN64-00379A	INDICATOR LED;ROME-II,23,PC,CLEAR	1	S.N.A	
...3	T0061	BN64-00453A	WINDOW-REMOCON;32R71,PC,VIOLET	1	S.N.A	
...3	T0022	BN64-00755A	KNOB-CONTROL;32L450,ABS,V0,BK07	1	S.N.A	
...3		BN96-06792C	ASSY HOLDER P-BOSS;22L450,HIPS,HB,BLK	1	S.N.A	
....4		BN61-03752C	HOLDER-BOSS BOTTOM;22L450,HIPS,HB,BLK	1	S.N.A	
....4		BN61-04692A	BOSS-PRIMER;#94,clear,35cps	0.001	S.N.A	
....4		BN61-04731D	BOSS-TAPE;AMBER,ACRYL,T1.1,W20.0mm,WHITE	0.38	S.N.A	
...3	M0145	BN96-07269A	ASSY BOARD P-FUNCTION;LN40A450C1D,CT5000	1	S.A	
...3	M0146	BN96-07270B	ASSY BOARD P-POWER & IR;LN22A450C1D,CT50	1	S.A	
...3		BN61-04692A	BOSS-PRIMER;#94,clear,35cps	0.001	S.N.A	
...3	CCM1	BN63-05199J	COVER-SHEET;AMBER,PE,T0.08,W105mm,200M,C	1.98	S.N.A	
...3		BN64-00986B	DECORATION-BOTTOM;22,LB450,PC CLEAR,RED	1	S.N.A	
0.1	M0002	BN90-02028B	ASSY COVER REAR;LB450 22	1	S.N.A	
..2	T0081	6002-001294	SCREW-TAPPING;BH,+,,M4,L16,ZPC(BLK)	3	S.N.A	
..2	M0013	BN96-10022B	ASSY COVER P-REAR;LB450 22,HIPS,HB,BK500	1	S.A	
...3	T0069	AA60-00091M	SPACER-FELT;-,FELT,35X10,-,-,BLK,T0.5,-,	4	S.N.A	
...3	T0069	AA63-00099E	SPACER-FELT;L6,FELT,10,BLK,T0.5,20	4	S.N.A	
...3	M0113	BN61-01581A	BRACKET-VESA;BI17/19BS,SECC,T1.0	2	S.N.A	
...3	M0006	BN63-05240C	COVER-REAR;LB450 22,HIPS,HB,BK500	1	S.N.A	
...3	T0071	BN64-01020A	INLAY-TERMINAL;22B450(SO),PS SHEET,T0.5	1	S.N.A	
...3	T0064	BN65-00002A	CLAMPER CORE;BORDEAUX,LDPE,-,-,BLK,-	1	S.N.A	
0.1	M0019	BN91-03433B	ASSY LCD;LN22B650T6FXZA	1	S.N.A	
..2	M0215	BN07-00620A	LCD-PANEL;V216B1-L01	1	S.A	
0.1	M0112	BN91-03771A	ASSY SHIELD;LN22B450C4X*,LB4C	1	S.N.A	
..2	M0081	6003-000275	SCREW-TAPTITE;BH,+,-,B,M3,L10,ZPC(BLK),S	3	S.N.A	

Level	Location No.	Code No.	Description & Specification	Q'ty	SA/SNA	Remark
..2	M0081	6003-000275	SCREW-TAPTITE;BH,+,-,B,M3,L10,ZPC(BLK),S	4	S.N.A	
..2	M0081	6003-001188	SCREW-TAPTITE;BH,+,-,B,M4,L10,ZPC(WHT),S	4	S.N.A	
..2	M0081	6003-001188	SCREW-TAPTITE;BH,+,-,B,M4,L10,ZPC(WHT),S	2	S.N.A	
..2	M0081	6003-001188	SCREW-TAPTITE;BH,+,-,B,M4,L10,ZPC(WHT),S	2	S.N.A	
..2	M0081	6003-001439	SCREW-TAPTITE;BH,+,-,S,M4,L8,ZPC(WHT),SW	1	S.N.A	
..2	M0174	BN44-00232A	IP BOARD;IP-54135T,L650,1.4~2.8mA,6.8~8.	1	S.A	
..2	M0115	BN61-02947A	BRACKET-STAND LINK;JASMINE 32",SECC,T1.6	1	S.N.A	
..2	M0251	BN96-02854F	ASSY CABLE P;MENDEL RTA,-,FFC CABLE,120M	1	S.A	
..2	T0447	BN96-10033E	ASSY BRACKET P-PANEL;LB450 22,SO,LO,CMO,	1	S.N.A	
...3	T0212	BN61-04778A	BRACKET-PANEL;B450 22inch,SECC,T0.8	1	S.N.A	
0.1	M0017	BN91-04023A	ASSY CHASSIS;LA22B450C4XXD,LB4C	1	S.N.A	
..2	M0014	BN94-02771A	ASSY PCB MAIN;LA22B450C4XXD,LB4C	1	S.N.A	
...3	JA3003	3701-001480	CONNECTOR-DSUB;15P,3R,FEMAIL,STAMPED PIN	1	S.A	
...3	CN330	3711-004379	HEADER-BOARD TO CABLE;BOX,4P,1R,2mm,STRA	1	S.A	
...3	CN330	3711-004531	HEADER-BOARD TO CABLE;BOX,10P,1R,2mm,ANG	1	S.A	
...3	CN330	3711-004712	HEADER-BOARD TO CABLE;BOX,9P,1R,2mm,STRA	1	S.N.A	
...3	CN330	3711-006715	HEADER-BOARD TO CABLE;BOX,4P,1R,2.5mm,AN	1	S.N.A	
...3	JA330	3722-001061	JACK-PHONE;1P,3.6PI,AG,BLK,N	1	S.A	
...3	JA330	3722-001061	JACK-PHONE;1P,3.6PI,AG,BLK,N	1	S.A	
...3	JA330	3722-001061	JACK-PHONE;1P,3.6PI,AG,BLK,N	1	S.A	
...3	JA333	3722-002143	JACK-PIN;5P,NI,GRN/BLU/RED/WHT/RED,STRAI	1	S.A	
...3	JA333	3722-002143	JACK-PIN;5P,NI,GRN/BLU/RED/WHT/RED,STRAI	1	S.A	
...3	JA7001	3722-002516	JACK-USB;4P/1C,AU30U,BLK,STRAIGHT,A TYPE	1	S.A	
...3	JA333	3722-002691	JACK-PIN;2P,Ni,WHT/RED,STRAIGHT	1	S.A	
...3	JA333	3722-002699	JACK-PIN;3P,Ni,YEL/WHT/RED,STRAIGHT	1	S.A	
...3	CIS3	BN40-00142B	TUNER;TCPS3001PD11S(H),TCPS3001PD11S(H),	1	S.A	
...3	HDCP	BN97-01987A	ASSY HDCP;BN46-00018A,PS-42V6S,D73A,MSTA	1	S.N.A	
....4		BN46-00018A	KEY CODE-CERTIFICATE;(HDCP KEY)PPM42M5S,	1	S.N.A	
...3	T0174	BN97-03348A	ASSY SMD;LA22B450C4XXD,LB4C	1	S.N.A	
....4	D2006	0401-001049	DIODE-SWITCHING;LS4148,75V,150mA,SOD-80,	1	S.A	
....4	D2009	0401-001049	DIODE-SWITCHING;LS4148,75V,150mA,SOD-80,	1	S.A	
....4	D2012	0401-001049	DIODE-SWITCHING;LS4148,75V,150mA,SOD-80,	1	S.A	
....4	D2013	0401-001049	DIODE-SWITCHING;LS4148,75V,150mA,SOD-80,	1	S.A	
....4	D2014	0401-001049	DIODE-SWITCHING;LS4148,75V,150mA,SOD-80,	1	S.A	
....4	D1002	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A	
....4	D3007	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A	
....4	D3009	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A	
....4	D3017	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A	
....4	D3019	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A	
....4	D4002	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A	
....4	D4005	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A	
....4	D4009	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A	
....4	D4010	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A	
....4	D4011	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A	
....4	D4012	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A	
....4	D4013	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A	
....4	D4014	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A	
....4	D5001	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A	
....4	D5002	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A	
....4	D5003	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A	

Level	Location No.	Code No.	Description & Specification	Q'ty	SA/SNA	Remark
....4	D5005	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A	
....4	D5007	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A	
....4	D5010	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A	
....4	D5012	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A	
....4	D5014	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A	
....4	D5016	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A	
....4	D5017	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A	
....4	D2002	0401-001099	DIODE-SWITCHING;1N4148WS,75V,150mA,SOD-3	1	S.N.A	
....4	D5004	0401-001099	DIODE-SWITCHING;1N4148WS,75V,150mA,SOD-3	1	S.N.A	
....4	D5006	0401-001099	DIODE-SWITCHING;1N4148WS,75V,150mA,SOD-3	1	S.N.A	
....4	D5008	0401-001099	DIODE-SWITCHING;1N4148WS,75V,150mA,SOD-3	1	S.N.A	
....4	D5009	0401-001099	DIODE-SWITCHING;1N4148WS,75V,150mA,SOD-3	1	S.N.A	
....4	D5011	0401-001099	DIODE-SWITCHING;1N4148WS,75V,150mA,SOD-3	1	S.N.A	
....4	D5013	0401-001099	DIODE-SWITCHING;1N4148WS,75V,150mA,SOD-3	1	S.N.A	
....4	D5018	0401-001099	DIODE-SWITCHING;1N4148WS,75V,150mA,SOD-3	1	S.N.A	
....4	D2004	0403-000771	DIODE-ZENER;VLZ6V2B,5.96-6.27V,500mW,SOD	1	S.A	
....4	D3005	0403-000771	DIODE-ZENER;VLZ6V2B,5.96-6.27V,500mW,SOD	1	S.A	
....4	D3014	0403-000771	DIODE-ZENER;VLZ6V2B,5.96-6.27V,500mW,SOD	1	S.A	
....4	D4001	0403-000771	DIODE-ZENER;VLZ6V2B,5.96-6.27V,500mW,SOD	1	S.A	
....4	D4003	0403-000771	DIODE-ZENER;VLZ6V2B,5.96-6.27V,500mW,SOD	1	S.A	
....4	D4004	0403-000771	DIODE-ZENER;VLZ6V2B,5.96-6.27V,500mW,SOD	1	S.A	
....4	D4006	0403-000771	DIODE-ZENER;VLZ6V2B,5.96-6.27V,500mW,SOD	1	S.A	
....4	D4007	0403-000771	DIODE-ZENER;VLZ6V2B,5.96-6.27V,500mW,SOD	1	S.A	
....4	D4008	0403-000771	DIODE-ZENER;VLZ6V2B,5.96-6.27V,500mW,SOD	1	S.A	
....4	D4022_FA	0403-000771	DIODE-ZENER;VLZ6V2B,5.96-6.27V,500mW,SOD	1	S.A	
....4	D4023_FA	0403-000771	DIODE-ZENER;VLZ6V2B,5.96-6.27V,500mW,SOD	1	S.A	
....4	D6001	0403-000771	DIODE-ZENER;VLZ6V2B,5.96-6.27V,500mW,SOD	1	S.A	
....4	D7003	0403-000771	DIODE-ZENER;VLZ6V2B,5.96-6.27V,500mW,SOD	1	S.A	
....4	D3001	0403-001052	DIODE-ZENER;RD8.2MB,7.7-8.7V,200mW,SOT-2	1	S.A	
....4	D3011	0403-001052	DIODE-ZENER;RD8.2MB,7.7-8.7V,200mW,SOT-2	1	S.A	
....4	D7001	0403-001052	DIODE-ZENER;RD8.2MB,7.7-8.7V,200mW,SOT-2	1	S.A	
....4	D1001	0403-001425	DIODE-ZENER;BZX84C33,31-35V,350mW,SOT-23	1	S.A	
....4	D0254	0404-001020	DIODE-SCHOTTKY;BAT54C,30V,200mA,SOT-23,T	1	S.A	
....4	D0254	0404-001020	DIODE-SCHOTTKY;BAT54C,30V,200mA,SOT-23,T	1	S.A	
....4	D7002	0406-001200	DIODE-TVS;RCLAMP0504F,6/-/-V,150W,SC-70	1	S.A	
....4	IC3004	0406-001299	DIODE-TVS;CM1224-04MR,MSOP-10	1	S.A	
....4	IC3005	0406-001299	DIODE-TVS;CM1224-04MR,MSOP-10	1	S.A	
....4	Q8002	0501-000342	TR-SMALL SIGNAL;KSC1623-Y,NPN,200mW,SOT-	1	S.A	
....4	Q1001	0501-000445	TR-SMALL SIGNAL;KTC3875S-Y,NPN,150mW,SOT	1	S.A	
....4	Q1002	0501-000445	TR-SMALL SIGNAL;KTC3875S-Y,NPN,150mW,SOT	1	S.A	
....4	Q1003	0501-000445	TR-SMALL SIGNAL;KTC3875S-Y,NPN,150mW,SOT	1	S.A	
....4	Q1008	0501-000445	TR-SMALL SIGNAL;KTC3875S-Y,NPN,150mW,SOT	1	S.A	
....4	Q1009	0501-000445	TR-SMALL SIGNAL;KTC3875S-Y,NPN,150mW,SOT	1	S.A	
....4	Q1012	0501-000445	TR-SMALL SIGNAL;KTC3875S-Y,NPN,150mW,SOT	1	S.A	
....4	Q2003	0501-000445	TR-SMALL SIGNAL;KTC3875S-Y,NPN,150mW,SOT	1	S.A	
....4	Q3005	0501-000445	TR-SMALL SIGNAL;KTC3875S-Y,NPN,150mW,SOT	1	S.A	
....4	Q4001	0501-000445	TR-SMALL SIGNAL;KTC3875S-Y,NPN,150mW,SOT	1	S.A	
....4	Q6001	0501-000445	TR-SMALL SIGNAL;KTC3875S-Y,NPN,150mW,SOT	1	S.A	
....4	Q6002	0501-000445	TR-SMALL SIGNAL;KTC3875S-Y,NPN,150mW,SOT	1	S.A	
....4	Q6004	0501-000445	TR-SMALL SIGNAL;KTC3875S-Y,NPN,150mW,SOT	1	S.A	
....4	Q7007	0501-000445	TR-SMALL SIGNAL;KTC3875S-Y,NPN,150mW,SOT	1	S.A	

Level	Location No.	Code No.	Description & Specification	Q'ty	SA/SNA	Remark
....4	Q409	0505-000110	FET-SILICON;2N7002,N,60V,115mA,7.5ohm,0.	1	S.A	
....4	Q409	0505-000110	FET-SILICON;2N7002,N,60V,115mA,7.5ohm,0.	1	S.A	
....4	Q409	0505-000110	FET-SILICON;2N7002,N,60V,115mA,7.5ohm,0.	1	S.A	
....4	Q409	0505-000110	FET-SILICON;2N7002,N,60V,115mA,7.5ohm,0.	1	S.A	
....4	Q409	0505-000110	FET-SILICON;2N7002,N,60V,115mA,7.5ohm,0.	1	S.A	
....4	Q409	0505-000110	FET-SILICON;2N7002,N,60V,115mA,7.5ohm,0.	1	S.A	
....4	Q409	0505-000110	FET-SILICON;2N7002,N,60V,115mA,7.5ohm,0.	1	S.A	
....4	Q409	0505-000110	FET-SILICON;2N7002,N,60V,115mA,7.5ohm,0.	1	S.A	
....4	Q409	0505-000110	FET-SILICON;2N7002,N,60V,115mA,7.5ohm,0.	1	S.A	
....4	Q409	0505-001170	FET-SILICON;SI9933ADY-T1,P,-20V,3.4A,0.0	1	S.A	
....4	Q409	0505-001994	FET-SILICON;Si5435DC,P,-30V,-5.6A,0.05oh	1	S.A	
....4	IC4002	1006-001266	IC-LINE TRANSCEIVER;SP3232EEY,TSSOP,16P,	1	S.A	
....4	IC112	1103-000129	IC-EEPROM;24C02,2Kbit,256x8Bit,SOP,8P,5x	1	S.A	
....4	IC112	1103-000129	IC-EEPROM;24C02,2Kbit,256x8Bit,SOP,8P,5x	1	S.A	
....4	IC112	1103-000129	IC-EEPROM;24C02,2Kbit,256x8Bit,SOP,8P,5x	1	S.A	
....4	IC112	1103-001385	IC-EEPROM;AT24C256,256Kbit,32Kx8,SOP,8P,	1	S.A	
....4	IC7001	1105-001931	IC-DDR2 SDRAM;K4T51163Q,DDR2-800,512Mbit	1	S.N.A	
....4	T0085	1201-002487	IC-AUDIO AMP;MAX9728A,QFN,12P,3x3mm,DUAL	1	S.A	
....4	T0124	1201-002797	IC-POWER AMP;NTP-3200,QFN,56P,8x8mm,DUAL	1	S.A	
....4	T0085	1201-002849	IC-AUDIO AMP;DRV603,TSSOP,14P,5x4.4mm,DU	1	S.A	
....4	T0087	1203-002842	IC-POSI.FIXED REG.;AP1117D-33A,TO-252,3P	1	S.A	
....4	T0087	1203-002842	IC-POSI.FIXED REG.;AP1117D-33A,TO-252,3P	1	S.A	
....4	IC012	1203-002995	IC-POSI.ADJUST REG.;AP1117D-A,TO-252,3P,	1	S.A	
....4	IC012	1203-002995	IC-POSI.ADJUST REG.;AP1117D-A,TO-252,3P,	1	S.A	
....4	T0087	1203-003696	IC-POSI.FIXED REG.;NCP1117DT18T5G,DPAK,3	1	S.A	
....4	IC6002	1203-004363	IC-VOL. DETECTOR;RT9818C-29PV,SOT-23,3P,	1	S.A	
....4	IC2003	1203-004364	IC-VOL. DETECTOR;RT9818C-42PV,SOT-23,3P,	1	S.A	
....4	IC1002	1203-005279	IC-DC/DC CONVERTER;MP2372DN,SOP,8P,4.9x3	1	S.A	
....4	IC7003	1205-003201	IC-BUS SWITCH;TC7WB125FK,SSOP,8P,2x2.3mm	1	S.A	
....4	IC7004	1205-003201	IC-BUS SWITCH;TC7WB125FK,SSOP,8P,2x2.3mm	1	S.A	
....4	IC7005	1205-003201	IC-BUS SWITCH;TC7WB125FK,SSOP,8P,2x2.3mm	1	S.A	
....4	IC7006	1205-003479	IC-SWITCH;TPS2051BDBVR,SOT-23,5P,2.9x1.6	1	S.A	
....4	IC109	1205-003695	IC-LCD CONTROLLER;SEMS03-LF,PQFP,296P,32	1	S.A	
....4	VT4005	1405-001185	VARISTOR;24Vdc,1.6x0.8x0.36mm,TP	1	S.A	
....4	VT4001	1405-001233	VARISTOR;30Vdc,5A,1.6x0.8x0.8mm,TP	1	S.A	
....4	VT4002	1405-001233	VARISTOR;30Vdc,5A,1.6x0.8x0.8mm,TP	1	S.A	
....4	VT4007	1405-001233	VARISTOR;30Vdc,5A,1.6x0.8x0.8mm,TP	1	S.A	
....4	VT4008	1405-001233	VARISTOR;30Vdc,5A,1.6x0.8x0.8mm,TP	1	S.A	
....4	VT5001	1405-001233	VARISTOR;30Vdc,5A,1.6x0.8x0.8mm,TP	1	S.A	
....4	VT5002	1405-001233	VARISTOR;30Vdc,5A,1.6x0.8x0.8mm,TP	1	S.A	
....4	VT5003	1405-001233	VARISTOR;30Vdc,5A,1.6x0.8x0.8mm,TP	1	S.A	
....4	VT5004	1405-001233	VARISTOR;30Vdc,5A,1.6x0.8x0.8mm,TP	1	S.A	
....4	VT5006	1405-001233	VARISTOR;30Vdc,5A,1.6x0.8x0.8mm,TP	1	S.A	
....4	VT5007	1405-001233	VARISTOR;30Vdc,5A,1.6x0.8x0.8mm,TP	1	S.A	
....4	VT5009	1405-001233	VARISTOR;30Vdc,5A,1.6x0.8x0.8mm,TP	1	S.A	
....4	VT5011	1405-001233	VARISTOR;30Vdc,5A,1.6x0.8x0.8mm,TP	1	S.A	
....4	VT5012	1405-001233	VARISTOR;30Vdc,5A,1.6x0.8x0.8mm,TP	1	S.A	
....4	VT5013	1405-001233	VARISTOR;30Vdc,5A,1.6x0.8x0.8mm,TP	1	S.A	
....4	VT5014	1405-001233	VARISTOR;30Vdc,5A,1.6x0.8x0.8mm,TP	1	S.A	
....4	R7016	2007-000043	R-CHIP;1Kohm,1%,1/10W,TP,1608	1	S.A	
....4	R7017	2007-000043	R-CHIP;1Kohm,1%,1/10W,TP,1608	1	S.A	

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....4	R7074_ANA	2007-000043	R-CHIP;1Kohm,1%,1/10W,TP,1608	1	S.A	
....4	R1011	2007-000052	R-CHIP;10Kohm,1%,1/10W,TP,1608	1	S.N.A	
....4	R1018	2007-000052	R-CHIP;10Kohm,1%,1/10W,TP,1608	1	S.N.A	
....4	R1020	2007-000052	R-CHIP;10Kohm,1%,1/10W,TP,1608	1	S.N.A	
....4	R1029	2007-000052	R-CHIP;10Kohm,1%,1/10W,TP,1608	1	S.N.A	
....4	R1031	2007-000102	R-CHIP;100Kohm,5%,1/10W,TP,1608	1	S.A	
....4	R1032	2007-000102	R-CHIP;100Kohm,5%,1/10W,TP,1608	1	S.A	
....4	R4045	2007-000106	R-CHIP;220Kohm,5%,1/10W,TP,1608	1	S.N.A	
....4	R1005	2007-000123	R-CHIP;1.5Kohm,5%,1/10W,TP,1608	1	S.N.A	
....4	R1030	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R2001	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R2007	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R2008	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R2009	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R2010	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R3032	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R3048	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R3065	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R3081	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R4004	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R4021	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R4024	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R4025	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R4048	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R4061	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R4083	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R4084	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R5021	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R5026	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R5034	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R5035	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R5036	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R5043	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6004	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6005	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6034	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6036	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6037	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6038	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6039	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6041	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6044	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6046	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6047	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6076	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6077	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6078	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6079	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6080	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6081	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6082	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	1	S.N.A	

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....4	R6083	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6084	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6085	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6087	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6089	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6095	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6097	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6103	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6104	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6106	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6108	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6109	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6111	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6113	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6115	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6116	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6117	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6118	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6120	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6121	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6127	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6135	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6136	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6137	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6145	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6146	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6147	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6148	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6149	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6150	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6151	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6155	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6157	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6158	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6159	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6160	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6161	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6162	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6163	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6165	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6167	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6168	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6169	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6200	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6205	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6212	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6213	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6214	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R7064	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R7065	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R2012	2007-000140	R-CHIP;1Kohm,5%,1/16W,TP,1005	1	S.N.A	

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....4	R2017	2007-000140	R-CHIP;1Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R2018	2007-000140	R-CHIP;1Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R3023	2007-000140	R-CHIP;1Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R3056	2007-000140	R-CHIP;1Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R4056	2007-000140	R-CHIP;1Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R5044	2007-000140	R-CHIP;1Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R5045	2007-000140	R-CHIP;1Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6003	2007-000140	R-CHIP;1Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R2013	2007-000141	R-CHIP;2.2Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R2026	2007-000141	R-CHIP;2.2Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R4051	2007-000141	R-CHIP;2.2Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R4052	2007-000141	R-CHIP;2.2Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R4055	2007-000141	R-CHIP;2.2Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6189	2007-000141	R-CHIP;2.2Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6197	2007-000141	R-CHIP;2.2Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R1006	2007-000143	R-CHIP;4.7Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R1007	2007-000143	R-CHIP;4.7Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R1015	2007-000143	R-CHIP;4.7Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R1027	2007-000143	R-CHIP;4.7Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R1056	2007-000143	R-CHIP;4.7Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R2027	2007-000143	R-CHIP;4.7Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R2031	2007-000143	R-CHIP;4.7Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R2032	2007-000143	R-CHIP;4.7Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R2033	2007-000143	R-CHIP;4.7Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R2034	2007-000143	R-CHIP;4.7Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R3029	2007-000143	R-CHIP;4.7Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R3060	2007-000143	R-CHIP;4.7Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R3084	2007-000143	R-CHIP;4.7Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R4020	2007-000143	R-CHIP;4.7Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R4023	2007-000143	R-CHIP;4.7Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R4058	2007-000143	R-CHIP;4.7Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6052	2007-000143	R-CHIP;4.7Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6060	2007-000143	R-CHIP;4.7Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6061	2007-000143	R-CHIP;4.7Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6140	2007-000143	R-CHIP;4.7Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6141	2007-000143	R-CHIP;4.7Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R7058	2007-000143	R-CHIP;4.7Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R7061	2007-000143	R-CHIP;4.7Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R8104	2007-000143	R-CHIP;4.7Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R8105	2007-000143	R-CHIP;4.7Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R1040	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R1043	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R2002	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R2003	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R2020_OP	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R2025	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R2300	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R2305	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R3037	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R3039	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R3041	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	S.N.A	

Level	Location No.	Code No.	Description & Specification	Q'ty	SA/SNA	Remark
....4	R3049	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R3071	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R3073	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R3075	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R3082	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R3085	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R4009	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R4010	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R4011	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R4012	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R4015	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R4016	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R4028	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R5009	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R5010	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R5017	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R5018	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R5037	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R5038	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6051	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6058	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6064	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6070	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6071	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6073	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6122	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6124	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6125	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6126	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6128	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6139	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6142	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6152	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6176	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6181	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6182	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6185	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6186	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6187	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6188	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6192	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6196	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6300	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6308	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6309	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R7015	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R7033_ANA	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R7034	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R7039	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R7040	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R7073_ANA	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	1	S.N.A	

Level	Location No.	Code No.	Description & Specification	Q'ty	SA/SNA	Remark
....4	R4017	2007-000151	R-CHIP;15Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R4022	2007-000151	R-CHIP;15Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R5011	2007-000151	R-CHIP;15Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R5016	2007-000151	R-CHIP;15Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R5023	2007-000151	R-CHIP;15Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R5024	2007-000151	R-CHIP;15Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R5039	2007-000151	R-CHIP;15Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R5040	2007-000151	R-CHIP;15Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R1023	2007-000153	R-CHIP;22Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R1037	2007-000153	R-CHIP;22Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R1041	2007-000153	R-CHIP;22Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6066	2007-000153	R-CHIP;22Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6067	2007-000153	R-CHIP;22Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6068	2007-000153	R-CHIP;22Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6069	2007-000153	R-CHIP;22Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R1042	2007-000157	R-CHIP;47Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R2015	2007-000157	R-CHIP;47Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R2016	2007-000157	R-CHIP;47Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R1022	2007-000162	R-CHIP;100Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6057	2007-000170	R-CHIP;1Mohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R2006	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R2028	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R2029	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R3003	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R3005	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R3053	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R3055	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R4026	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R4027	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R4042	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R4047	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R4050	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R5012	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R5013	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R5014	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R5019	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R5020	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R5022	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6032	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6033	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6048	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6093	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6143	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6144	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6153	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6154	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6164	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6177	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6193	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6194	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6201	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	1	S.N.A	

Level	Location No.	Code No.	Description & Specification	Q'ty	SA/SNA	Remark
....4	R6202	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6203	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6204	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6206	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6207	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6208	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6209	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6210	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6305	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6306	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R7007	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R7008	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R7018	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R7019	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R7032_ANA	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R7035	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R7036	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R7037	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R7038	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R7041	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R7042	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R7043	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R7044	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R7045	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R7046	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R7054	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R7055	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R7069_ANA	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R8066	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R8067	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R8071	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R8072	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R8074	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R3025	2007-000172	R-CHIP;10ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R3059	2007-000172	R-CHIP;10ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6010	2007-000172	R-CHIP;10ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6011	2007-000172	R-CHIP;10ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6012	2007-000172	R-CHIP;10ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6013	2007-000172	R-CHIP;10ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6014	2007-000172	R-CHIP;10ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6015	2007-000172	R-CHIP;10ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6016	2007-000172	R-CHIP;10ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6017	2007-000172	R-CHIP;10ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6021	2007-000172	R-CHIP;10ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6022	2007-000172	R-CHIP;10ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6023	2007-000172	R-CHIP;10ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6024	2007-000172	R-CHIP;10ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6025	2007-000172	R-CHIP;10ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6026	2007-000172	R-CHIP;10ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6027	2007-000172	R-CHIP;10ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6028	2007-000172	R-CHIP;10ohm,5%,1/16W,TP,1005	1	S.N.A	

Level	Location No.	Code No.	Description & Specification	Q'ty	SA/SNA	Remark
....4	R6094	2007-000172	R-CHIP;10ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6096	2007-000172	R-CHIP;10ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6100	2007-000172	R-CHIP;10ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6102	2007-000172	R-CHIP;10ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6105	2007-000172	R-CHIP;10ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6107	2007-000172	R-CHIP;10ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6110	2007-000172	R-CHIP;10ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6112	2007-000172	R-CHIP;10ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R3030	2007-000173	R-CHIP;22ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R3031	2007-000173	R-CHIP;22ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R3067	2007-000173	R-CHIP;22ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R3068	2007-000173	R-CHIP;22ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R4001	2007-000173	R-CHIP;22ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R4005	2007-000173	R-CHIP;22ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R7001	2007-000173	R-CHIP;22ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R7002	2007-000173	R-CHIP;22ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R7003	2007-000173	R-CHIP;22ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R7004	2007-000173	R-CHIP;22ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R7005	2007-000173	R-CHIP;22ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R7006	2007-000173	R-CHIP;22ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R7010	2007-000173	R-CHIP;22ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R7011	2007-000173	R-CHIP;22ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R3043	2007-000174	R-CHIP;47ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R3044	2007-000174	R-CHIP;47ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R3077	2007-000174	R-CHIP;47ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R3078	2007-000174	R-CHIP;47ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R4013	2007-000174	R-CHIP;47ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R4014	2007-000174	R-CHIP;47ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R4040	2007-000174	R-CHIP;47ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R4041	2007-000174	R-CHIP;47ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R5015	2007-000174	R-CHIP;47ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R5041	2007-000174	R-CHIP;47ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R5042	2007-000174	R-CHIP;47ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6006	2007-000174	R-CHIP;47ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6009	2007-000174	R-CHIP;47ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6018	2007-000174	R-CHIP;47ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6019	2007-000174	R-CHIP;47ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6020	2007-000174	R-CHIP;47ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6029	2007-000174	R-CHIP;47ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6030	2007-000174	R-CHIP;47ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6031	2007-000174	R-CHIP;47ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6092	2007-000174	R-CHIP;47ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6098	2007-000174	R-CHIP;47ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6114	2007-000174	R-CHIP;47ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R7009	2007-000402	R-CHIP;150ohm,5%,1/10W,TP,1608	1	S.A	
....4	R7013	2007-000640	R-CHIP;270ohm,1%,1/10W,TP,1608	1	S.A	
....4	R1047	2007-000683	R-CHIP;3.3Kohm,1%,1/10W,TP,1608	1	S.A	
....4	R1016	2007-000763	R-CHIP;330ohm,1%,1/10W,TP,1608	1	S.N.A	
....4	R1049	2007-000763	R-CHIP;330ohm,1%,1/10W,TP,1608	1	S.N.A	
....4	R1046	2007-000779	R-CHIP;33ohm,1%,1/10W,TP,1608	1	S.A	
....4	R1038	2007-000869	R-CHIP;4.7Kohm,1%,1/10W,TP,1608	1	S.N.A	

Level	Location No.	Code No.	Description & Specification	Q'ty	SA/SNA	Remark
....4	R1039	2007-000869	R-CHIP;4.7Kohm,1%,1/10W,TP,1608	1	S.N.A	
....4	R1044	2007-000869	R-CHIP;4.7Kohm,1%,1/10W,TP,1608	1	S.N.A	
....4	R1045	2007-000869	R-CHIP;4.7Kohm,1%,1/10W,TP,1608	1	S.N.A	
....4	R2019	2007-000932	R-CHIP;470ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R2057	2007-000932	R-CHIP;470ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R2307	2007-000932	R-CHIP;470ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6035	2007-000932	R-CHIP;470ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6040	2007-000932	R-CHIP;470ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6045	2007-000932	R-CHIP;470ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6211	2007-000932	R-CHIP;470ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6134	2007-001237	R-CHIP;910ohm,1%,1/10W,TP,1608	1	S.A	
....4	R2011	2007-001292	R-CHIP;33ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6001	2007-001292	R-CHIP;33ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6002	2007-001292	R-CHIP;33ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6054	2007-001292	R-CHIP;33ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6055	2007-001292	R-CHIP;33ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R1004	2007-001325	R-CHIP;3.3Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R2014	2007-001325	R-CHIP;3.3Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6053	2007-001325	R-CHIP;3.3Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R6056	2007-001325	R-CHIP;3.3Kohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R1051	2007-002425	R-CHIP;1ohm,5%,1/10W,TP,1608	1	S.N.A	
....4	R1052	2007-002425	R-CHIP;1ohm,5%,1/10W,TP,1608	1	S.N.A	
....4	R1053	2007-002425	R-CHIP;1ohm,5%,1/10W,TP,1608	1	S.N.A	
....4	R1054	2007-002425	R-CHIP;1ohm,5%,1/10W,TP,1608	1	S.N.A	
....4	R7014	2007-002425	R-CHIP;1ohm,5%,1/10W,TP,1608	1	S.N.A	
....4	R4002	2007-007009	R-CHIP;75ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R4003	2007-007009	R-CHIP;75ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R4006	2007-007009	R-CHIP;75ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R4007	2007-007009	R-CHIP;75ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R4008	2007-007009	R-CHIP;75ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R5002	2007-007009	R-CHIP;75ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R5004	2007-007009	R-CHIP;75ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R5005	2007-007009	R-CHIP;75ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R5006	2007-007009	R-CHIP;75ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R5007	2007-007009	R-CHIP;75ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R5008	2007-007009	R-CHIP;75ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R5030	2007-007009	R-CHIP;75ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R1003	2007-007107	R-CHIP;100Kohm,1%,1/16W,TP,1005	1	S.N.A	
....4	R1055	2007-007107	R-CHIP;100Kohm,1%,1/16W,TP,1005	1	S.N.A	
....4	R2201	2007-007107	R-CHIP;100Kohm,1%,1/16W,TP,1005	1	S.N.A	
....4	R2306	2007-007107	R-CHIP;100Kohm,1%,1/16W,TP,1005	1	S.N.A	
....4	R4043	2007-007107	R-CHIP;100Kohm,1%,1/16W,TP,1005	1	S.N.A	
....4	R6130	2007-007142	R-CHIP;10Kohm,1%,1/16W,TP,1005	1	S.N.A	
....4	R6131	2007-007142	R-CHIP;10Kohm,1%,1/16W,TP,1005	1	S.N.A	
....4	R2021	2007-007197	R-CHIP;3.3ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R2022	2007-007197	R-CHIP;3.3ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R2023	2007-007197	R-CHIP;3.3ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R2024	2007-007197	R-CHIP;3.3ohm,5%,1/16W,TP,1005	1	S.N.A	
....4	R1048	2007-007297	R-CHIP;110ohm,1%,1/10W,TP,1608	1	S.A	
....4	R6059	2007-007319	R-CHIP;390ohm,1%,1/16W,TP,1005	1	S.N.A	
....4	R1010	2007-007331	R-CHIP;90.9Kohm,1%,1/10W,TP,1608	1	S.A	

Level	Location No.	Code No.	Description & Specification	Q'ty	SA/SNA	Remark
....4	R3001	2007-007334	R-CHIP;200Kohm,1%,1/16W,TP,1005	1	S.N.A	
....4	R3051	2007-007334	R-CHIP;200Kohm,1%,1/16W,TP,1005	1	S.N.A	
....4	R1021	2007-007549	R-CHIP;4.99Kohm,1%,1/10W,TP,1608	1	S.N.A	
....4	R7012	2007-007721	R-CHIP;560ohm,1%,1/10W,TP,1608	1	S.A	
....4	R2301	2007-008339	R-CHIP;30Kohm,0.5%,1/16W,TP,1005	1	S.N.A	
....4	R2302	2007-008339	R-CHIP;30Kohm,0.5%,1/16W,TP,1005	1	S.N.A	
....4	R2303	2007-008339	R-CHIP;30Kohm,0.5%,1/16W,TP,1005	1	S.N.A	
....4	R2304	2007-008339	R-CHIP;30Kohm,0.5%,1/16W,TP,1005	1	S.N.A	
....4	R1028	2007-008593	R-CHIP;750ohm,1%,1/16W,TP,1005	1	S.A	
....4	R6179	2011-001011	R-NETWORK;10Kohm,5%,1/16W,L,CHIP,8P,TP,3	1	S.A	
....4	R6180	2011-001011	R-NETWORK;10Kohm,5%,1/16W,L,CHIP,8P,TP,3	1	S.A	
....4	R7022	2011-001262	R-NETWORK;22ohm,5%,1/16W,L,CHIP,8P,TP,2.	1	S.A	
....4	R7023	2011-001262	R-NETWORK;22ohm,5%,1/16W,L,CHIP,8P,TP,2.	1	S.A	
....4	R7024	2011-001262	R-NETWORK;22ohm,5%,1/16W,L,CHIP,8P,TP,2.	1	S.A	
....4	R7025	2011-001262	R-NETWORK;22ohm,5%,1/16W,L,CHIP,8P,TP,2.	1	S.A	
....4	R7026	2011-001262	R-NETWORK;22ohm,5%,1/16W,L,CHIP,8P,TP,2.	1	S.A	
....4	R7027	2011-001262	R-NETWORK;22ohm,5%,1/16W,L,CHIP,8P,TP,2.	1	S.A	
....4	R7028	2011-001262	R-NETWORK;22ohm,5%,1/16W,L,CHIP,8P,TP,2.	1	S.A	
....4	R7029	2011-001262	R-NETWORK;22ohm,5%,1/16W,L,CHIP,8P,TP,2.	1	S.A	
....4	R7030	2011-001262	R-NETWORK;22ohm,5%,1/16W,L,CHIP,8P,TP,2.	1	S.A	
....4	R7031	2011-001262	R-NETWORK;22ohm,5%,1/16W,L,CHIP,8P,TP,2.	1	S.A	
....4	C6052	2203-000181	C-CER,CHIP;100nF,+80-20%,25V,Y5V,TP,2012	1	S.A	
....4	C7062	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.N.A	
....4	C7067	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.N.A	
....4	C2012	2203-000233	C-CER,CHIP;0.1nF,5%,50V,C0G,1005	1	S.A	
....4	C4003	2203-000233	C-CER,CHIP;0.1nF,5%,50V,C0G,1005	1	S.A	
....4	C4004	2203-000233	C-CER,CHIP;0.1nF,5%,50V,C0G,1005	1	S.A	
....4	C2092	2203-000239	C-CER,CHIP;0.1nF,5%,50V,C0G,2012	1	S.N.A	
....4	C2108	2203-000239	C-CER,CHIP;0.1nF,5%,50V,C0G,2012	1	S.N.A	
....4	C2102	2203-000280	C-CER,CHIP;0.01nF,0.5pF,50V,C0G,1608	1	S.A	
....4	C2103	2203-000280	C-CER,CHIP;0.01nF,0.5pF,50V,C0G,1608	1	S.A	
....4	C1052	2203-000438	C-CER,CHIP;1nF,10%,50V,X7R,1005	1	S.A	
....4	C2010	2203-000438	C-CER,CHIP;1nF,10%,50V,X7R,1005	1	S.A	
....4	C6006	2203-000438	C-CER,CHIP;1nF,10%,50V,X7R,1005	1	S.A	
....4	C6011	2203-000438	C-CER,CHIP;1nF,10%,50V,X7R,1005	1	S.A	
....4	C6014	2203-000438	C-CER,CHIP;1nF,10%,50V,X7R,1005	1	S.A	
....4	C6057	2203-000438	C-CER,CHIP;1nF,10%,50V,X7R,1005	1	S.A	
....4	C7046	2203-000438	C-CER,CHIP;1nF,10%,50V,X7R,1005	1	S.A	
....4	C1033	2203-000489	C-CER,CHIP;2.2nF,10%,50V,X7R,1005	1	S.A	
....4	C6048	2203-000489	C-CER,CHIP;2.2nF,10%,50V,X7R,1005	1	S.A	
....4	C6049	2203-000489	C-CER,CHIP;2.2nF,10%,50V,X7R,1005	1	S.A	
....4	C6050	2203-000489	C-CER,CHIP;2.2nF,10%,50V,X7R,1005	1	S.A	
....4	C6051	2203-000489	C-CER,CHIP;2.2nF,10%,50V,X7R,1005	1	S.A	
....4	C4006	2203-000627	C-CER,CHIP;0.022nF,5%,50V,C0G,1005	1	S.N.A	
....4	C4007	2203-000627	C-CER,CHIP;0.022nF,5%,50V,C0G,1005	1	S.N.A	
....4	C2016	2203-000812	C-CER,CHIP;.033nF,5%,50V,C0G,-,1005	1	S.A	
....4	C2017	2203-000812	C-CER,CHIP;.033nF,5%,50V,C0G,-,1005	1	S.A	
....4	C2039	2203-000838	C-CER,CHIP;0.39NF,5%,50V,C0G,TP,1608	1	S.A	
....4	C2040	2203-000838	C-CER,CHIP;0.39NF,5%,50V,C0G,TP,1608	1	S.A	
....4	C2041	2203-000838	C-CER,CHIP;0.39NF,5%,50V,C0G,TP,1608	1	S.A	
....4	C2042	2203-000838	C-CER,CHIP;0.39NF,5%,50V,C0G,TP,1608	1	S.A	

Level	Location No.	Code No.	Description & Specification	Q'ty	SA/SNA	Remark
....4	C2043	2203-000925	C-CER,CHIP;470nF,+80-20%,50V,Y5V,2012	1	S.A	
....4	C2044	2203-000925	C-CER,CHIP;470nF,+80-20%,50V,Y5V,2012	1	S.A	
....4	C1038	2203-000975	C-CER,CHIP;47nF,10%,25V,X7R,TP,1608,-	1	S.N.A	
....4	C4028	2203-000995	C-CER,CHIP;0.047nF,5%,50V,C0G,1005	1	S.A	
....4	C5010	2203-000995	C-CER,CHIP;0.047nF,5%,50V,C0G,1005	1	S.A	
....4	C4019	2203-000998	C-CER,CHIP;0.047nF,5%,50V,C0G,1608	1	S.N.A	
....4	C4021	2203-000998	C-CER,CHIP;0.047nF,5%,50V,C0G,1608	1	S.N.A	
....4	C1050	2203-001103	C-CER,CHIP;6.8nF,10%,50V,X7R,1608	1	S.A	
....4	C1017	2203-001397	C-CER,CHIP;2.2nF,5%,50V,NP0,1608	1	S.A	
....4	C6037	2203-001412	C-CER,CHIP;0.03nF,5%,50V,NP0,TP,1005	1	S.N.A	
....4	C6038	2203-001412	C-CER,CHIP;0.03nF,5%,50V,NP0,TP,1005	1	S.N.A	
....4	C6002	2203-001630	C-CER,CHIP;330nF,+80-20%,16V,Y5V,1608	1	S.N.A	
....4	C1028	2203-002285	C-CER,CHIP;10nF,10%,50V,X7R,1005	1	S.N.A	
....4	C1040	2203-002285	C-CER,CHIP;10nF,10%,50V,X7R,1005	1	S.N.A	
....4	C1041	2203-002285	C-CER,CHIP;10nF,10%,50V,X7R,1005	1	S.N.A	
....4	C1049	2203-002285	C-CER,CHIP;10nF,10%,50V,X7R,1005	1	S.N.A	
....4	C4029	2203-002285	C-CER,CHIP;10nF,10%,50V,X7R,1005	1	S.N.A	
....4	C4030	2203-002285	C-CER,CHIP;10nF,10%,50V,X7R,1005	1	S.N.A	
....4	C4031	2203-002285	C-CER,CHIP;10nF,10%,50V,X7R,1005	1	S.N.A	
....4	C4032	2203-002285	C-CER,CHIP;10nF,10%,50V,X7R,1005	1	S.N.A	
....4	C8046	2203-002285	C-CER,CHIP;10nF,10%,50V,X7R,1005	1	S.N.A	
....4	C4005	2203-002525	C-CER,CHIP;0.56nF,10%,50V,X7R,TP,1005	1	S.N.A	
....4	C4009	2203-002525	C-CER,CHIP;0.56nF,10%,50V,X7R,TP,1005	1	S.N.A	
....4	C5004	2203-002525	C-CER,CHIP;0.56nF,10%,50V,X7R,TP,1005	1	S.N.A	
....4	C5005	2203-002525	C-CER,CHIP;0.56nF,10%,50V,X7R,TP,1005	1	S.N.A	
....4	C5006	2203-002525	C-CER,CHIP;0.56nF,10%,50V,X7R,TP,1005	1	S.N.A	
....4	C5007	2203-002525	C-CER,CHIP;0.56nF,10%,50V,X7R,TP,1005	1	S.N.A	
....4	C5015	2203-002525	C-CER,CHIP;0.56nF,10%,50V,X7R,TP,1005	1	S.N.A	
....4	C5017	2203-002525	C-CER,CHIP;0.56nF,10%,50V,X7R,TP,1005	1	S.N.A	
....4	C2053	2203-002687	C-CER,CHIP;1.2nF,10%,50V,X7R,TP,1005	1	S.A	
....4	C2054	2203-002687	C-CER,CHIP;1.2nF,10%,50V,X7R,TP,1005	1	S.A	
....4	C2055	2203-002687	C-CER,CHIP;1.2nF,10%,50V,X7R,TP,1005	1	S.A	
....4	C2056	2203-002687	C-CER,CHIP;1.2nF,10%,50V,X7R,TP,1005	1	S.A	
....4	C1051	2203-005030	C-CER,CHIP;470nF,+80-20%,50V,Y5V,TP,3216	1	S.A	
....4	C1013	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,TP,1608	1	S.N.A	
....4	C2026	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,TP,1608	1	S.N.A	
....4	C2027	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,TP,1608	1	S.N.A	
....4	C2029	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,TP,1608	1	S.N.A	
....4	C2030	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,TP,1608	1	S.N.A	
....4	C2032	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,TP,1608	1	S.N.A	
....4	C2033	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,TP,1608	1	S.N.A	
....4	C2034	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,TP,1608	1	S.N.A	
....4	C2035	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,TP,1608	1	S.N.A	
....4	C2036	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,TP,1608	1	S.N.A	
....4	C2037	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,TP,1608	1	S.N.A	
....4	C2045	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,TP,1608	1	S.N.A	
....4	C2046	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,TP,1608	1	S.N.A	
....4	C2047	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,TP,1608	1	S.N.A	
....4	C2048	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,TP,1608	1	S.N.A	
....4	C2049	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,TP,1608	1	S.N.A	
....4	C2050	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,TP,1608	1	S.N.A	

Level	Location No.	Code No.	Description & Specification	Q'ty	SA/SNA	Remark
....4	C2051	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,TP,1608	1	S.N.A	
....4	C2052	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,TP,1608	1	S.N.A	
....4	C4011	2203-005249	C-CER,CHIP;100nF,10%,50V,X7R,TP,1608	1	S.N.A	
....4	C1004	2203-005384	C-CER,CHIP;4700nF,+80-20%,10V,Y5V,TP,201	1	S.N.A	
....4	C1037	2203-005384	C-CER,CHIP;4700nF,+80-20%,10V,Y5V,TP,201	1	S.N.A	
....4	C1043	2203-005384	C-CER,CHIP;4700nF,+80-20%,10V,Y5V,TP,201	1	S.N.A	
....4	C1045	2203-005384	C-CER,CHIP;4700nF,+80-20%,10V,Y5V,TP,201	1	S.N.A	
....4	C1056	2203-005384	C-CER,CHIP;4700nF,+80-20%,10V,Y5V,TP,201	1	S.N.A	
....4	C6029	2203-005384	C-CER,CHIP;4700nF,+80-20%,10V,Y5V,TP,201	1	S.N.A	
....4	C6030	2203-005384	C-CER,CHIP;4700nF,+80-20%,10V,Y5V,TP,201	1	S.N.A	
....4	C6031	2203-005384	C-CER,CHIP;4700nF,+80-20%,10V,Y5V,TP,201	1	S.N.A	
....4	C6032	2203-005384	C-CER,CHIP;4700nF,+80-20%,10V,Y5V,TP,201	1	S.N.A	
....4	C6033	2203-005384	C-CER,CHIP;4700nF,+80-20%,10V,Y5V,TP,201	1	S.N.A	
....4	C6034	2203-005384	C-CER,CHIP;4700nF,+80-20%,10V,Y5V,TP,201	1	S.N.A	
....4	C6035	2203-005384	C-CER,CHIP;4700nF,+80-20%,10V,Y5V,TP,201	1	S.N.A	
....4	C6036	2203-005384	C-CER,CHIP;4700nF,+80-20%,10V,Y5V,TP,201	1	S.N.A	
....4	C6041	2203-005384	C-CER,CHIP;4700nF,+80-20%,10V,Y5V,TP,201	1	S.N.A	
....4	C6053	2203-005384	C-CER,CHIP;4700nF,+80-20%,10V,Y5V,TP,201	1	S.N.A	
....4	C6054	2203-005384	C-CER,CHIP;4700nF,+80-20%,10V,Y5V,TP,201	1	S.N.A	
....4	C6055	2203-005384	C-CER,CHIP;4700nF,+80-20%,10V,Y5V,TP,201	1	S.N.A	
....4	C6056	2203-005384	C-CER,CHIP;4700nF,+80-20%,10V,Y5V,TP,201	1	S.N.A	
....4	C2001	2203-005533	C-CER,CHIP;1000nF,20%,6.3V,X7R,TP,1608	1	S.N.A	
....4	C2002	2203-005533	C-CER,CHIP;1000nF,20%,6.3V,X7R,TP,1608	1	S.N.A	
....4	C1035	2203-005642	C-CER,CHIP;0.22nF,5%,50V,NP0,1005	1	S.N.A	
....4	C1036	2203-005968	C-CER,CHIP;4.7NF,10%,50V,X7R,TP,1005	1	S.N.A	
....4	C2038	2203-005968	C-CER,CHIP;4.7NF,10%,50V,X7R,TP,1005	1	S.N.A	
....4	C1042	2203-006104	C-CER,CHIP;1000nF,10%,50V,X7R,3225	1	S.A	
....4	C5016	2203-006126	C-CER,CHIP;47NF,10%,16V,X7R,TP,1005	1	S.N.A	
....4	C5018	2203-006126	C-CER,CHIP;47NF,10%,16V,X7R,TP,1005	1	S.N.A	
....4	C6005	2203-006126	C-CER,CHIP;47NF,10%,16V,X7R,TP,1005	1	S.N.A	
....4	C6007	2203-006126	C-CER,CHIP;47NF,10%,16V,X7R,TP,1005	1	S.N.A	
....4	C6008	2203-006126	C-CER,CHIP;47NF,10%,16V,X7R,TP,1005	1	S.N.A	
....4	C6009	2203-006126	C-CER,CHIP;47NF,10%,16V,X7R,TP,1005	1	S.N.A	
....4	C6010	2203-006126	C-CER,CHIP;47NF,10%,16V,X7R,TP,1005	1	S.N.A	
....4	C6012	2203-006126	C-CER,CHIP;47NF,10%,16V,X7R,TP,1005	1	S.N.A	
....4	C6013	2203-006126	C-CER,CHIP;47NF,10%,16V,X7R,TP,1005	1	S.N.A	
....4	C6015	2203-006126	C-CER,CHIP;47NF,10%,16V,X7R,TP,1005	1	S.N.A	
....4	C6016	2203-006126	C-CER,CHIP;47NF,10%,16V,X7R,TP,1005	1	S.N.A	
....4	C6017	2203-006126	C-CER,CHIP;47NF,10%,16V,X7R,TP,1005	1	S.N.A	
....4	C6018	2203-006126	C-CER,CHIP;47NF,10%,16V,X7R,TP,1005	1	S.N.A	
....4	C6021	2203-006126	C-CER,CHIP;47NF,10%,16V,X7R,TP,1005	1	S.N.A	
....4	C6022	2203-006126	C-CER,CHIP;47NF,10%,16V,X7R,TP,1005	1	S.N.A	
....4	C6023	2203-006126	C-CER,CHIP;47NF,10%,16V,X7R,TP,1005	1	S.N.A	
....4	C6024	2203-006126	C-CER,CHIP;47NF,10%,16V,X7R,TP,1005	1	S.N.A	
....4	C6025	2203-006126	C-CER,CHIP;47NF,10%,16V,X7R,TP,1005	1	S.N.A	
....4	C6026	2203-006126	C-CER,CHIP;47NF,10%,16V,X7R,TP,1005	1	S.N.A	
....4	C1057	2203-006141	C-CER,CHIP;1000nF,10%,16V,X5R,1608	1	S.N.A	
....4	C7004_ANA	2203-006141	C-CER,CHIP;1000nF,10%,16V,X5R,1608	1	S.N.A	
....4	C2006	2203-006158	C-CER,CHIP;100nF,10%,16V,X7R,1005	1	S.N.A	
....4	C2007	2203-006158	C-CER,CHIP;100nF,10%,16V,X7R,1005	1	S.N.A	
....4	C2008	2203-006158	C-CER,CHIP;100nF,10%,16V,X7R,1005	1	S.N.A	

Level	Location No.	Code No.	Description & Specification	Q'ty	SA/SNA	Remark
....4	C2013	2203-006158	C-CER,CHIP;100nF,10%,16V,X7R,1005	1	S.N.A	
....4	C2014	2203-006158	C-CER,CHIP;100nF,10%,16V,X7R,1005	1	S.N.A	
....4	C2015	2203-006158	C-CER,CHIP;100nF,10%,16V,X7R,1005	1	S.N.A	
....4	C2023	2203-006158	C-CER,CHIP;100nF,10%,16V,X7R,1005	1	S.N.A	
....4	C2024	2203-006158	C-CER,CHIP;100nF,10%,16V,X7R,1005	1	S.N.A	
....4	C4020	2203-006158	C-CER,CHIP;100nF,10%,16V,X7R,1005	1	S.N.A	
....4	C4034	2203-006158	C-CER,CHIP;100nF,10%,16V,X7R,1005	1	S.N.A	
....4	C6001	2203-006158	C-CER,CHIP;100nF,10%,16V,X7R,1005	1	S.N.A	
....4	C7031	2203-006158	C-CER,CHIP;100nF,10%,16V,X7R,1005	1	S.N.A	
....4	C7033	2203-006158	C-CER,CHIP;100nF,10%,16V,X7R,1005	1	S.N.A	
....4	C7034	2203-006158	C-CER,CHIP;100nF,10%,16V,X7R,1005	1	S.N.A	
....4	C7036	2203-006158	C-CER,CHIP;100nF,10%,16V,X7R,1005	1	S.N.A	
....4	C7039	2203-006158	C-CER,CHIP;100nF,10%,16V,X7R,1005	1	S.N.A	
....4	C7041	2203-006158	C-CER,CHIP;100nF,10%,16V,X7R,1005	1	S.N.A	
....4	C7044	2203-006158	C-CER,CHIP;100nF,10%,16V,X7R,1005	1	S.N.A	
....4	C7045	2203-006158	C-CER,CHIP;100nF,10%,16V,X7R,1005	1	S.N.A	
....4	C7058	2203-006158	C-CER,CHIP;100nF,10%,16V,X7R,1005	1	S.N.A	
....4	C7059	2203-006158	C-CER,CHIP;100nF,10%,16V,X7R,1005	1	S.N.A	
....4	C7060	2203-006158	C-CER,CHIP;100nF,10%,16V,X7R,1005	1	S.N.A	
....4	C7063	2203-006158	C-CER,CHIP;100nF,10%,16V,X7R,1005	1	S.N.A	
....4	C7065	2203-006158	C-CER,CHIP;100nF,10%,16V,X7R,1005	1	S.N.A	
....4	C8047	2203-006170	C-CER,CHIP;220nF,10%,16V,X7R,1608	1	S.N.A	
....4	C1025	2203-006307	C-CER,CHIP;1000nF,10%,25V,X5R,2012	1	S.N.A	
....4	C1032	2203-006307	C-CER,CHIP;1000nF,10%,25V,X5R,2012	1	S.N.A	
....4	C1034	2203-006307	C-CER,CHIP;1000nF,10%,25V,X5R,2012	1	S.N.A	
....4	C5014	2203-006307	C-CER,CHIP;1000nF,10%,25V,X5R,2012	1	S.N.A	
....4	C7025	2203-006307	C-CER,CHIP;1000nF,10%,25V,X5R,2012	1	S.N.A	
....4	C7047	2203-006307	C-CER,CHIP;1000nF,10%,25V,X5R,2012	1	S.N.A	
....4	C1003	2203-006336	C-CER,CHIP;10000nF,10%,25V,X5R,3216	1	S.A	
....4	C1011	2203-006336	C-CER,CHIP;10000nF,10%,25V,X5R,3216	1	S.A	
....4	C1012	2203-006336	C-CER,CHIP;10000nF,10%,25V,X5R,3216	1	S.A	
....4	C1021	2203-006336	C-CER,CHIP;10000nF,10%,25V,X5R,3216	1	S.A	
....4	C1023	2203-006336	C-CER,CHIP;10000nF,10%,25V,X5R,3216	1	S.A	
....4	C1027	2203-006336	C-CER,CHIP;10000nF,10%,25V,X5R,3216	1	S.A	
....4	C1031	2203-006336	C-CER,CHIP;10000nF,10%,25V,X5R,3216	1	S.A	
....4	C1048	2203-006336	C-CER,CHIP;10000nF,10%,25V,X5R,3216	1	S.A	
....4	C1058	2203-006336	C-CER,CHIP;10000nF,10%,25V,X5R,3216	1	S.A	
....4	C1059	2203-006336	C-CER,CHIP;10000nF,10%,25V,X5R,3216	1	S.A	
....4	C2019	2203-006336	C-CER,CHIP;10000nF,10%,25V,X5R,3216	1	S.A	
....4	C2020	2203-006336	C-CER,CHIP;10000nF,10%,25V,X5R,3216	1	S.A	
....4	C2021	2203-006336	C-CER,CHIP;10000nF,10%,25V,X5R,3216	1	S.A	
....4	C2022	2203-006336	C-CER,CHIP;10000nF,10%,25V,X5R,3216	1	S.A	
....4	C2028	2203-006336	C-CER,CHIP;10000nF,10%,25V,X5R,3216	1	S.A	
....4	C2031	2203-006336	C-CER,CHIP;10000nF,10%,25V,X5R,3216	1	S.A	
....4	C2005	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,TP,2012	1	S.A	
....4	C2009	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,TP,2012	1	S.A	
....4	C2025	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,TP,2012	1	S.A	
....4	C3005	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,TP,2012	1	S.A	
....4	C3013	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,TP,2012	1	S.A	
....4	C4008	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,TP,2012	1	S.A	
....4	C4017	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,TP,2012	1	S.A	

Level	Location No.	Code No.	Description & Specification	Q'ty	SA/SNA	Remark
....4	C4023_OP	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,TP,2012	1	S.A	
....4	C4026	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,TP,2012	1	S.A	
....4	C6003	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,TP,2012	1	S.A	
....4	C6046	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,TP,2012	1	S.A	
....4	C7028	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,TP,2012	1	S.A	
....4	C7066	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,TP,2012	1	S.A	
....4	C2003	2203-006562	C-CER,CHIP;1000nF,10%,10V,X5R,TP,1005	1	S.N.A	
....4	C2004	2203-006562	C-CER,CHIP;1000nF,10%,10V,X5R,TP,1005	1	S.N.A	
....4	C2011	2203-006562	C-CER,CHIP;1000nF,10%,10V,X5R,TP,1005	1	S.N.A	
....4	C2018	2203-006562	C-CER,CHIP;1000nF,10%,10V,X5R,TP,1005	1	S.N.A	
....4	C2104	2203-006562	C-CER,CHIP;1000nF,10%,10V,X5R,TP,1005	1	S.N.A	
....4	C2105	2203-006562	C-CER,CHIP;1000nF,10%,10V,X5R,TP,1005	1	S.N.A	
....4	C2106	2203-006562	C-CER,CHIP;1000nF,10%,10V,X5R,TP,1005	1	S.N.A	
....4	C6045	2203-006562	C-CER,CHIP;1000nF,10%,10V,X5R,TP,1005	1	S.N.A	
....4	C7043	2203-006562	C-CER,CHIP;1000nF,10%,10V,X5R,TP,1005	1	S.N.A	
....4	C7055	2203-006562	C-CER,CHIP;1000nF,10%,10V,X5R,TP,1005	1	S.N.A	
....4	C7056	2203-006562	C-CER,CHIP;1000nF,10%,10V,X5R,TP,1005	1	S.N.A	
....4	C1001	2203-006618	C-CER,CHIP;2200nF,+80-20%,16V,Y5V,-,1608	1	S.N.A	
....4	C1055	2203-006618	C-CER,CHIP;2200nF,+80-20%,16V,Y5V,-,1608	1	S.N.A	
....4	C3001	2203-006681	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1005	1	S.N.A	
....4	C3003	2203-006681	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1005	1	S.N.A	
....4	C3007	2203-006681	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1005	1	S.N.A	
....4	C3009	2203-006681	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1005	1	S.N.A	
....4	C3011	2203-006681	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1005	1	S.N.A	
....4	C3015	2203-006681	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1005	1	S.N.A	
....4	C4010	2203-006681	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1005	1	S.N.A	
....4	C4027	2203-006681	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1005	1	S.N.A	
....4	C6004	2203-006681	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1005	1	S.N.A	
....4	C6027	2203-006681	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1005	1	S.N.A	
....4	C6028	2203-006681	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1005	1	S.N.A	
....4	C6039	2203-006681	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1005	1	S.N.A	
....4	C6040	2203-006681	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1005	1	S.N.A	
....4	C6042	2203-006681	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1005	1	S.N.A	
....4	C6043	2203-006681	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1005	1	S.N.A	
....4	C6044	2203-006681	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1005	1	S.N.A	
....4	C6047	2203-006681	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1005	1	S.N.A	
....4	C6058	2203-006681	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1005	1	S.N.A	
....4	C7001	2203-006681	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1005	1	S.N.A	
....4	C7002	2203-006681	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1005	1	S.N.A	
....4	C7003	2203-006681	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1005	1	S.N.A	
....4	C7005	2203-006681	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1005	1	S.N.A	
....4	C7006	2203-006681	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1005	1	S.N.A	
....4	C7007	2203-006681	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1005	1	S.N.A	
....4	C7008	2203-006681	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1005	1	S.N.A	
....4	C7009	2203-006681	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1005	1	S.N.A	
....4	C7010	2203-006681	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1005	1	S.N.A	
....4	C7011	2203-006681	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1005	1	S.N.A	
....4	C7012	2203-006681	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1005	1	S.N.A	
....4	C7013	2203-006681	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1005	1	S.N.A	
....4	C7014	2203-006681	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1005	1	S.N.A	
....4	C7015	2203-006681	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1005	1	S.N.A	

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....4	C7017	2203-006681	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1005	1	S.N.A	
....4	C7018	2203-006681	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1005	1	S.N.A	
....4	C7019	2203-006681	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1005	1	S.N.A	
....4	C7020	2203-006681	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1005	1	S.N.A	
....4	C7021	2203-006681	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1005	1	S.N.A	
....4	C7022	2203-006681	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1005	1	S.N.A	
....4	C7023	2203-006681	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1005	1	S.N.A	
....4	C7024	2203-006681	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1005	1	S.N.A	
....4	C7026	2203-006681	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1005	1	S.N.A	
....4	C7027	2203-006681	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1005	1	S.N.A	
....4	C7030	2203-006681	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1005	1	S.N.A	
....4	C7032	2203-006681	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1005	1	S.N.A	
....4	C7035	2203-006681	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1005	1	S.N.A	
....4	C7037	2203-006681	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1005	1	S.N.A	
....4	C7048	2203-006681	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1005	1	S.N.A	
....4	C7049	2203-006681	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1005	1	S.N.A	
....4	C7050	2203-006681	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1005	1	S.N.A	
....4	C7051	2203-006681	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1005	1	S.N.A	
....4	C7052	2203-006681	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1005	1	S.N.A	
....4	C7054	2203-006681	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1005	1	S.N.A	
....4	C4001	2203-006992	C-CER,CHIP;0.33nF,5%,50V,C0G,1005	1	S.N.A	
....4	C4002	2203-006992	C-CER,CHIP;0.33nF,5%,50V,C0G,1005	1	S.N.A	
....4	C5009	2203-006992	C-CER,CHIP;0.33nF,5%,50V,C0G,1005	1	S.N.A	
....4	C5011	2203-006992	C-CER,CHIP;0.33nF,5%,50V,C0G,1005	1	S.N.A	
....4	C1029	2203-007176	C-CER,CHIP;10000nF,10%,16V,X5R,TP,2012 (	1	S.N.A	
....4	C1030	2203-007176	C-CER,CHIP;10000nF,10%,16V,X5R,TP,2012 (	1	S.N.A	
....4	C1047	2203-007176	C-CER,CHIP;10000nF,10%,16V,X5R,TP,2012 (	1	S.N.A	
....4	C1054	2203-007176	C-CER,CHIP;10000nF,10%,16V,X5R,TP,2012 (	1	S.N.A	
....4	C2077	2203-007176	C-CER,CHIP;10000nF,10%,16V,X5R,TP,2012 (	1	S.N.A	
....4	C2100	2203-007176	C-CER,CHIP;10000nF,10%,16V,X5R,TP,2012 (	1	S.N.A	
....4	C2101	2203-007176	C-CER,CHIP;10000nF,10%,16V,X5R,TP,2012 (	1	S.N.A	
....4	C2107	2203-007176	C-CER,CHIP;10000nF,10%,16V,X5R,TP,2012 (	1	S.N.A	
....4	C7038	2203-007176	C-CER,CHIP;10000nF,10%,16V,X5R,TP,2012 (	1	S.N.A	
....4	C7040	2203-007176	C-CER,CHIP;10000nF,10%,16V,X5R,TP,2012 (	1	S.N.A	
....4	C7042	2203-007176	C-CER,CHIP;10000nF,10%,16V,X5R,TP,2012 (	1	S.N.A	
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A	
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A	
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A	
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A	
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A	
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A	
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A	
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A	
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A	
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A	
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A	
....4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A	
....4	T0052	2703-000417	INDUCTOR-SMD;220uH,5%,3225	1	S.A	
....4	T0052	2703-001426	INDUCTOR-SMD;680uH,20%,7070	1	S.A	
....4	T0052	2703-001778	INDUCTOR-SMD;3.3uH,20%,3225	1	S.A	
....4	T0052	2703-003408	INDUCTOR-SMD;10uH,20%,7070	1	S.A	

Level	Location No.	Code No.	Description & Specification	Q'ty	SA/SNA	Remark
....4	T0052	2703-003559	INDUCTOR-SMD;4.7uH,20%,8080	1	S.A	
....4	L2001	2704-000018	INDUCTOR-SMD-ARRAY;15uH,2000mA,2,0.124oh	1	S.N.A	
....4	L2002	2704-000018	INDUCTOR-SMD-ARRAY;15uH,2000mA,2,0.124oh	1	S.N.A	
....4	X202	2801-003773	CRYSTAL-SMD;12MHz,30ppm,28-AAN,20pF,50oh	1	S.A	
....4	F103	2901-001506	FILTER-EMI SMD;5V,0.13A,0pF,2x1x0.5mm,TP	1	S.A	
....4	F103	2901-001506	FILTER-EMI SMD;5V,0.13A,0pF,2x1x0.5mm,TP	1	S.A	
....4	T0568	3301-000314	BEAD-SMD;120ohm,1.6x0.8x0.8mm,-,-,-	1	S.N.A	
....4	T0568	3301-000314	BEAD-SMD;120ohm,1.6x0.8x0.8mm,-,-,-	1	S.N.A	
....4	T0568	3301-001236	BEAD-SMD;60ohm,1608,-,-,-	1	S.N.A	
....4	T0568	3301-001236	BEAD-SMD;60ohm,1608,-,-,-	1	S.N.A	
....4	T0568	3301-001236	BEAD-SMD;60ohm,1608,-,-,-	1	S.N.A	
....4	T0568	3301-001404	BEAD-SMD;30ohm,2012,TP,15.9OHM/30MHz	1	S.A	
....4	T0568	3301-001404	BEAD-SMD;30ohm,2012,TP,15.9OHM/30MHz	1	S.A	
....4	T0568	3301-001404	BEAD-SMD;30ohm,2012,TP,15.9OHM/30MHz	1	S.A	
....4	T0568	3301-001404	BEAD-SMD;30ohm,2012,TP,15.9OHM/30MHz	1	S.A	
....4	T0568	3301-001404	BEAD-SMD;30ohm,2012,TP,15.9OHM/30MHz	1	S.A	
....4	T0568	3301-001404	BEAD-SMD;30ohm,2012,TP,15.9OHM/30MHz	1	S.A	
....4	T0568	3301-001404	BEAD-SMD;30ohm,2012,TP,15.9OHM/30MHz	1	S.A	
....4	T0568	3301-001404	BEAD-SMD;30ohm,2012,TP,15.9OHM/30MHz	1	S.A	
....4	T0568	3301-001404	BEAD-SMD;30ohm,2012,TP,15.9OHM/30MHz	1	S.A	
....4	T0568	3301-001404	BEAD-SMD;30ohm,2012,TP,15.9OHM/30MHz	1	S.A	
....4	T0568	3301-001404	BEAD-SMD;30ohm,2012,TP,15.9OHM/30MHz	1	S.A	
....4	T0568	3301-001404	BEAD-SMD;30ohm,2012,TP,15.9OHM/30MHz	1	S.A	
....4	T0568	3301-001404	BEAD-SMD;30ohm,2012,TP,15.9OHM/30MHz	1	S.A	
....4	T0568	3301-001404	BEAD-SMD;30ohm,2012,TP,15.9OHM/30MHz	1	S.A	
....4	T0568	3301-001404	BEAD-SMD;30ohm,2012,TP,15.9OHM/30MHz	1	S.A	
....4	T0568	3301-001404	BEAD-SMD;30ohm,2012,TP,15.9OHM/30MHz	1	S.A	
....4	T0568	3301-001404	BEAD-SMD;30ohm,2012,TP,15.9OHM/30MHz	1	S.A	
....4	T0568	3301-001404	BEAD-SMD;30ohm,2012,TP,15.9OHM/30MHz	1	S.A	
....4	T0568	3301-001404	BEAD-SMD;30ohm,2012,TP,15.9OHM/30MHz	1	S.A	
....4	T0568	3301-001404	BEAD-SMD;30ohm,2012,TP,15.9OHM/30MHz	1	S.A	
....4	T0568	3301-001404	BEAD-SMD;30ohm,2012,TP,15.9OHM/30MHz	1	S.A	
....4	T0568	3301-001404	BEAD-SMD;30ohm,2012,TP,15.9OHM/30MHz	1	S.A	
....4	T0568	3301-001404	BEAD-SMD;30ohm,2012,TP,15.9OHM/30MHz	1	S.A	
....4	FT1001	3601-001374	FUSE-SURFACE MOUNT;32V,5A,FAST-ACTING,Hi	1	S.N.A	
....4	JA3001	3701-001367	CONNECTOR-HDMI;19P,2R,FEMALE,SMD,AU	1	S.A	
....4	JA3002	3701-001367	CONNECTOR-HDMI;19P,2R,FEMALE,SMD,AU	1	S.A	
....4	M0106	3708-001150	CONNECTOR-FPC/FFC/PIC;30P,1mm,SMD-A,SN,Y	1	S.A	
....4	T0077	BN41-01161A	PCB MAIN;LOLA3 22 inch,FR-4,4L,1.0,1.2T,	1	S.N.A	
....4	M0018	BN97-03258A	ASSY MICOM;ISP_Tool(MSTAR),2008.11.28,AS	1	S.N.A	
.....5	IC115	1107-001777	IC-FLASH MEMORY;MX25L6405DMI-12G,64Mbit,	1	S.A	
....4	SUB05	0202-001477	SOLDER-CREAM;LST309-M,-,D20~45um,96.5Sn/	2.235	S.N.A	
....4	D1003	0402-001098	DIODE-RECTIFIER;SK34,40V,3A,SMC,TP	1	S.N.A	
....4	IC1003	1203-005538	IC-DC/DC CONVERTER;AOZ1021HAIL,SOP,8P,4.	1	S.A	
...3	T0245	0202-001521	SOLDER-WIRE FLUX;ECO SOLDER RMA98 SUP,-,	0.25	S.N.A	
...3	T0066	BN62-00042A	HEAT SINK-ES;30*30*5,Ceramic,T1.5,TAPE	1	S.A	
0.1	M0003	BN92-04461F	ASSY BOX;LB450 22	1	S.N.A	
..2		BN69-03445F	BOX-SET;22B450,CB,A-01,SW2,YEL,W620,D533	1.01	S.N.A	
..2		BN96-02895A	ASSY MISC P-01,HANDLE PACKING;ALL MODEL,	1	S.N.A	
...3	M0103	BN66-00007A	LEVER-TOP;ALL MODEL,LDPE,WHITE,5.8g	1	S.N.A	

Level	Location No.	Code No.	Description & Specification	Q'ty	SA/SNA	Remark
...3	M0102	BN66-00008A	LEVER-BOTTOM;ALL MODEL,LDPE,WHITE,4.01g	1	S.N.A	
0.1	M0113	BN92-04467A	ASSY P/MATERIAL;LB450 22	1	S.N.A	
..2	T0376	6902-000061	BAG AIR;LDPE,T0.2,W500,L1000,TRP,-,-,-,3	0.011	S.N.A	
..2	T0376	6902-000379	BAG AIR;LDPE,T0.2,W1000,L1800,TRP,-,-,-,	0.003	S.N.A	
..2	T0524	6902-000520	BAG PE;HDPE/NITRON,T0.015/T0.5(DOUBLE),W	1	S.N.A	
..2	T0003	6902-000604	BAG WRAPPING;LDPE,T0.02,W500,L10000,TRP,	1.58	S.N.A	
..2	M0081	6902-000609	BAG ROLL;LDPE,T0.05,W2400,L1000,TRP,-,-,	0.03	S.N.A	
0.1	M0045	BN92-04746K	ASSY ACCESSORY;LA22B450C4XXM,LB4C	1	S.N.A	
..2	M0045	BN96-10590K	ASSY ACCESSORY-MANUAL;MALAYSIA,LB4C	1	S.N.A	
...3	T0524	6902-000009	BAG PE;HDPE,T0.03,W240,L400,TRP,8,2,-,5.	1	S.N.A	
...3		AA68-03242M	MANUAL FLYER-04,SAFETY GUIDE;comm,Samsun	1	S.N.A	
...3		BH68-00527B	MANUAL FLYER-00,WARRANTY CARD;COMM,Samsu	1	S.N.A	
...3	T0511	BN68-01911D	MANUAL USERS;COMM,SAMSUNG,Eng,ASIA,W/P 8	1	S.N.A	
..2	M0045	BN96-10591C	ASSY ACCESSORY-CABLE;LA22B450C4XZN,LB4C	1	S.N.A	
...3	T0531	BN63-04269B	COVER-BOTTOM;22,26,32L450,HIPS,HB,BK500	1	S.A	
...3	T0268	3903-000193	CBF-POWER CORD;DT,GB,GP3/YES,U(IEC C13-R	1	S.A	
...3	T0524	6902-000009	BAG PE;HDPE,T0.03,W240,L400,TRP,8,2,-,5.	1	S.N.A	
...3	T0074	BN59-00888A	REMOCON;L650(22”),L460,L450,L350,P430,TM	1	S.A	
...3	M9889	BN63-01798B	CLOTH-CLEAN;cloth,180,200,sea blue,ToC	1	S.N.A	
...3	M0560	BN96-01800A	ASSY ACCESSORY-SCREW ZIPPER;ROME32,-,-,-	1	S.N.A	
....4	T0081	6002-001294	SCREW-TAPPING;BH,+,,M4,L16,ZPC(BLK)	4	S.N.A	
....4		6902-000683	BAG ZIPPER;LDPE,T0.05,W60,L60,TRP,-,-,4-	1	S.N.A	
0.1	M0019	BN92-04748A	ASSY LABEL;LA22B450C4XXD,LB4C	1	S.N.A	
....4	T0052	2703-003559	INDUCTOR-SMD;4.7uH,20%,8080	1	S.A	

1. Precautions

1-1. Safety Precautions

Follow these safety, servicing and ESD precautions to prevent damage and to protect against potential hazards such as electrical shock.

1-1-1. Warnings

1. For continued safety, do not attempt to modify the circuit board.
2. Disconnect the AC power and DC power jack before servicing.

1-1-2. Servicing the LCD TV

1. When servicing the LCD TV, Disconnect the AC line cord from the AC outlet.
2. It is essential that service technicians have an accurate voltage meter available at all times.
   Check the calibration of this meter periodically.

1-1-3. Fire and Shock Hazard

Before returning the LCD TV to the user, perform the following safety checks:

1. Inspect each lead dress to make certain that the leads are not pinched or that hardware is not lodged between the chassis and other metal parts in the LCD TV.
2. Inspect all protective devices such as nonmetallic control knobs, insulating materials, cabinet backs, adjustment and compartment covers or shields, isolation resistorcapacitor networks, mechanical insulators, etc.
3. Leakage Current Hot Check (Figure 1-1):
   WARNING : Do not use an isolation transformer during this test.
   Use a leakage current tester or a metering system that complies with American National Standards Institute (ANSI C101.1, Leakage Current for Appliances), and Underwriters Laboratories (UL Publication UL1410, 59.7).

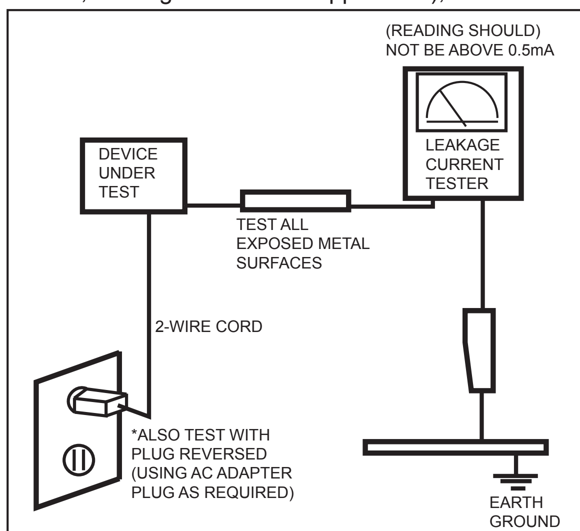


Figure 1-1. Leakage Current Test Circuit

4. With the unit completely reassembled, plug the AC line cord directly into a 120V AC outlet. With the unit's AC switch first in the ON position and then OFF, measure the current between a known earth ground (metal water pipe, conduit, etc.) and all exposed metal parts, including: metal cabinets, screwheads and control shafts.
   The current measured should not exceed 0.5 milliamp.
   Reverse the power-plug prongs in the AC outlet and repeat the test.

1-1-4. Product Safety Notices

Some electrical and mechanical parts have special safetyrelated characteristics which are often not evident from visual inspection. The protection they give may not be obtained by replacing them with components rated for higher voltage, wattage, etc. Parts that have special safety characteristics are identified by ⚠ on schematics and parts lists. A substitute replacement that does not have the same safety characteristics as the recommended replacement part might create shock, fire and/or other hazards. Product safety is under review continuously and new instructions are issued whenever appropriate.

1-2. Servicing Precautions

WARNING: An electrolytic capacitor installed with the wrong polarity might explode.
Caution: Before servicing units covered by this service manual, read and follow the Safety Precautions section of this manual.
Note: If unforeseen circumstances create conflict between the following servicing precautions and any of the safety precautions, always follow the safety precautions.

1-2-1 General Servicing Precautions

1. Always unplug the unit’s AC power cord from the AC power source and disconnect the DC Power Jack before attempting to:
   (a) remove or reinstall any component or assembly, (b) disconnect PCB plugs or connectors, (c) connect a test component in parallel with an electrolytic capacitor.
2. Some components are raised above the printed circuit board for safety. An insulation tube or tape is sometimes used. The internal wiring is sometimes clamped to prevent contact with thermally hot components. Reinstall all such elements to their original position.
3. After servicing, always check that the screws, components and wiring have been correctly reinstalled. Make sure that the area around the serviced part has not been damaged.
4. Check the insulation between the blades of the AC plug and accessible conductive parts (examples: metal panels, input terminals and earphone jacks).
5. Insulation Checking Procedure: Disconnect the power cord from the AC source and turn the power switch ON. Connect an insulation resistance meter (500 V) to theblades of the AC plug.
   The insulation resistance between each blade of the AC plug and accessible conductive parts (see above) should be greater than 1 megohm.
6. Always connect a test instrument’s ground lead to the instrument chassis ground before connecting the positive lead; always remove the instrument’s ground lead last.

1-3. Electrostatically Sensitive Devices (ESD) Precautions

Some semiconductor (solid state) devices can be easily damaged by static electricity. Such components are commonly called Electrostatically Sensitive Devices (ESD). Examples of typical ESD are integrated circuits and some field-effect transistors. The following techniques will reduce the incidence of component damage caused by static electricity.

1. Immediately before handling any semiconductor components or assemblies, drain the electrostatic charge from your body by touching a known earth ground. Alternatively, wear a discharging wrist-strap device. To avoid a shock hazard, be sure to remove the wrist strap before applying power to the LCD TV.
2. After removing an ESD-equipped assembly, place it on a conductive surface such as aluminum foil to prevent accumulation of an electrostatic charge.
3. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ESDs.
4. Use only a grounded-tip soldering iron to solder or desolder ESDs.
5. Use only an anti-static solder removal device. Some solder removal devices not classified as “anti-static” can generate electrical charges sufficient to damage ESDs.
6. Do not remove a replacement ESD from its protective package until you are ready to install it. Most replacement ESDs are packaged with leads that are electrically shorted together by conductive foam, aluminum foil or other conductive materials.
7. Immediately before removing the protective material from the leads of a replacement ESD, touch the protective material to the chassis or circuit assembly into which the device will be installed.
   Caution: Be sure no power is applied to the chassis or circuit and observe all other safety precautions.
8. Minimize body motions when handling unpackaged replacement ESDs. Motions such as brushing clothes together, or lifting your foot from a carpeted floor can generate enough static electricity to damage an ESD.

1-4. Installation Precautions

1. For safety reasons, more than a people are required for carrying the product.
2. Keep the power cord away from any heat emitting devices, as a melted covering may cause fire or electric shock.
3. Do not place the product in areas with poor ventilation such as a bookshelf or closet. The increased internal temperature may cause fire.
4. Bend the external antenna cable when connecting it to the product. This is a measure to protect it from being exposed to moisture. Otherwise, it may cause a fire or electric shock.
5. Make sure to turn the power off and unplug the power cord from the outlet before repositioning the product. Also check the antenna cable or the external connectors if they are fully unplugged. Damage to the cord may cause fire or electric shock.
6. Keep the antenna far away from any high-voltage cables and install it firmly. Contact with the highvoltage cable or the antenna falling over may cause fire or electric shock.
7. When installing the product, leave enough space (0.1m) between the product and the wall for ventilation purposes.
   A rise in temperature within the product may cause fire.

Memo

2. Product specifications

2-1. Feature & Specifications

Model	LA22B450C4H
Feature	
▶ RF, 1_HDMI, 1-HDMI/DVI, 1-Component, 2-AV,1-AV, D-Sub ▶ Brightness : 400cd/m^2 ▶ Contrast Ratio : 800:1 ▶ Response time : 5ms ▶ Dynamic contrast, PVA, TN ▶ PIP(in HDMI 1, 2, Component 1, PC Mode and Sub picture is available only in TV analog mode)	

Specifications		
Item	**Description**	
LCD Panel	TFT-LCD panel, V216B1-L01,CM21B12,RGB vertical stripe, 1366 x 768 pixels, 21.6-Inch viewable, Normally Black, pixel pitch 0.1165 (H) x 0.3495 (V) mm	
Scanning Frequency	Horizontal : 30 kHz ~ 80 kHz (Automatic) Vertical : 56 Hz ~ 75 Hz (Automatic)	
Display Colors	16.7 million colors	
Maximum resolution	Horizontal : 1366 Pixels Vertical : 768 Pixels	
Input Signal	Analog 0.7 Vp-p ± 5% positive at 75Ω , internally terminated	
Input Sync Signal	H/V Separate, TTL, P. or N.	
Maximum Pixel Clock rate	85.5MHz	
Active Display Horizontal/Vertical	477.417 (H) x 268.416(V) mm	
AC power voltage & Frequency	AC 110V ~ 240V, 50/60Hz	
Power Consumption	< 60 W (< 1W, stand by)	
Dimensions Set (W x D x H)	557.8 x 216 x 425.9_with stand 557.8 x 75 x 384.1_without stand	
Weight (Set)	6.5kg_with stand 5.1kg_without stand	
TV System	Tuning	Frequency Synthesize (Refer to detailed Frequency Table)
	System	PAL, SECAM, NT4.43,NT3.58
	Sound	BG, DK, M, I
Environmental Considerations	Operating Temperature : 50˚F ~ 104˚F (10˚C ~ 40˚C) Operating Humidity : 10% ~ 80%, non-condensing Storage temperature : -13˚F ~ 113˚F (-25˚C ~ 45˚C) Storage Humidity : 5% ~ 95%, non-condensing	
Audio spec.	- MAX Internal speaker Out : Right => 5W, Left => 5W - BASS Control Range : -8 dB ~ + 8dB - TREBLE Control Range : -8 dB ~ +8 dB - Headphone Out : 10 mW MAX - Output Frequency : RF : 80 Hz ~ 15 kHz A/V : 80 Hz ~ 20 kHz	
Note: Anynet+		

CHANNEL FREQUENCY TABLE

1. OUTPUT FREQUENCY : ANALOG fv:45.75MHz, fs:41.25MHz DIGITAL Fc:44MHz
2. TUNING STEP SIZE : FIRST PLL 250KHz SECOND PLL 62.5KHz

OSD	CH NO	AIR		BAND	CH NO		BAND	CH NO		CH NO	
		Air-DTV	Air-NTSC	BAND		Cable STD	BAND		Cable HRC		Cable IRC
1	1							A-8	72.00	A-8	73.25
2	2	57	55.25	V-L	2	55.25	V-L	2	54.00	2	55.25
3	3	63	61.25	V-L	3	61.25	V-L	3	60.00	3	61.25
4	4	69	67.25	V-L	4	67.25	V-L	4	66.00	4	67.25
5	5	79	77.25	V-L	5	77.25	V-L	A-7	78.00	A-7	79.25
6	6	85	83.25	V-L	6	83.25	V-L	A-6	84.00	A-6	85.25
7	7	177	175.25	V-H	7	175.25	V-H	7	174.00	7	175.25
8	8	183	181.25	V-H	8	181.25	V-H	8	180.00	8	181.25
9	9	189	187.25	V-H	9	187.25	V-H	9	186.00	9	187.25
10	10	195	193.25	V-H	10	193.25	V-H	10	192.00	10	193.25
11	11	201	199.25	V-H	11	199.25	V-H	11	198.00	11	199.25
12	12	207	205.25	V-H	12	205.25	V-H	12	204.00	12	205.25
13	13	213	211.25	V-H	13	211.25	V-H	13	210.00	13	211.25
14	14	473	471.25	UHF	A	121.25	MID	A	120.00	A	121.25
15	15	479	477.25	UHF	B	127.25	MID	B	126.00	B	127.25
16	16	485	483.25	UHF	C	133.25	MID	C	132.00	C	133.25
17	17	491	489.25	UHF	D	139.25	MID	D	138.00	D	139.25
18	18	497	495.25	UHF	E	145.25	MID	E	144.00	E	145.25
19	19	503	501.25	UHF	F	151.25	MID	F	150.00	F	151.25
20	20	509	507.25	UHF	G	157.25	MID	G	156.00	G	157.25
21	21	515	513.25	UHF	H	163.25	MID	H	162.00	H	163.25
22	22	521	519.25	UHF	I	169.25	MID	I	168.00	I	169.25
23	23	527	525.25	UHF	J	217.25	SUPER	J	216.00	J	217.25
24	24	533	531.25	UHF	K	223.25	SUPER	K	222.00	K	223.25
25	25	539	537.25	UHF	L	229.25	SUPER	L	228.00	L	229.25
26	26	545	543.25	UHF	M	235.25	SUPER	M	234.00	M	235.25
27	27	551	549.25	UHF	N	241.25	SUPER	N	240.00	N	241.25
28	28	557	555.25	UHF	O	247.25	SUPER	O	246.00	O	247.25
29	29	563	561.25	UHF	P	253.25	SUPER	P	252.00	P	253.25
30	30	569	567.25	UHF	Q	259.25	SUPER	Q	258.00	Q	259.25
31	31	575	573.25	UHF	R	265.25	SUPER	R	264.00	R	265.25
32	32	581	579.25	UHF	S	271.25	SUPER	S	270.00	S	271.25
33	33	587	585.25	UHF	T	277.25	SUPER	T	276.00	T	277.25
34	34	593	591.25	UHF	U	283.25	SUPER	U	282.00	U	283.25
35	35	599	597.25	UHF	V	289.25	SUPER	V	288.00	V	289.25
36	36	605	603.25	UHF	W	295.25	SUPER	W	294.00	W	295.25
37	37	611	609.25	UHF	AA	301.25	HYPER	AA	300.00	AA	301.25
38	38	617	615.25	UHF	BB	307.25	HYPER	BB	306.00	BB	307.25
39	39	623	621.25	UHF	CC	313.25	HYPER	CC	312.00	CC	313.25
40	40	629	627.25	UHF	DD	319.25	HYPER	DD	318.00	DD	319.25
41	41	635	633.25	UHF	EE	325.25	HYPER	EE	324.00	EE	325.25
42	42	641	639.25	UHF	FF	331.25	HYPER	FF	330.00	FF	331.25
43	43	647	645.25	UHF	GG	337.25	HYPER	GG	336.00	GG	337.25
44	44	653	651.25	UHF	HH	343.25	HYPER	HH	342.00	HH	343.25
45	45	659	657.25	UHF	II	349.25	HYPER	II	348.00	II	349.25
46	46	665	663.25	UHF	JJ	355.25	HYPER	JJ	354.00	JJ	355.25
47	47	671	669.25	UHF	KK	361.25	HYPER	KK	360.00	KK	361.25
48	48	677	675.25	UHF	LL	367.25	HYPER	LL	366.00	LL	367.25
49	49	683	681.25	UHF	MM	373.25	HYPER	MM	372.00	MM	373.25
50	50	689	687.25	UHF	NN	379.25	HYPER	NN	378.00	NN	379.25
51	51	695	693.25	UHF	OO	385.25	HYPER	OO	384.00	OO	385.25
52	52	701	699.25	UHF	PP	391.25	HYPER	PP	390.00	PP	391.25
53	53	707	705.25	UHF	QQ	397.25	HYPER	QQ	396.00	QQ	397.25
54	54	713	711.25	UHF	RR	403.25	HYPER	RR	402.00	RR	403.25
55	55	719	717.25	UHF	SS	409.25	HYPER	SS	408.00	SS	409.25
56	56	725	723.25	UHF	TT	415.25	HYPER	TT	414.00	TT	415.25
57	57	731	729.25	UHF	UU	421.25	HYPER	UU	420.00	UU	421.25
58	58	737	735.25	UHF	VV	427.25	HYPER	VV	426.00	VV	427.25
59	59	743	741.25	UHF	WW	433.25	HYPER	WW	432.00	WW	433.25
60	60	749	747.25	UHF	XX	439.25	HYPER	XX	438.00	XX	439.25
61	61	755	753.25	UHF	YY	445.25	HYPER	YY	444.00	YY	445.25
62	62	761	759.25	UHF	ZZ	451.25	HYPER	ZZ	450.00	ZZ	451.25
63	63	767	765.25	UHF	AAA	457.25	HYPER	AAA	456.00	AAA	457.25
64	64	773	771.25	UHF	BBB	463.25	HYPER	BBB	462.00	BBB	463.25
65	65	779	777.25	UHF	CCC	469.25	ULTRA	CCC	468.00	CCC	469.25
66	66	785	783.25	UHF	DDD	475.25	ULTRA	DDD	474.00	DDD	475.25
67	67	791	789.25	UHF	EEE	481.25	ULTRA	EEE	480.00	EEE	481.25
68	68	797	795.25	UHF	FFF	487.25	ULTRA	FFF	486.00	FFF	487.25
69	69	803	801.25	UHF	GGG	493.25	ULTRA	GGG	492.00	GGG	493.25

OSD	CH NO	AIR			CH NO			CH NO		CH NO	
		Air-DTV	Air-NTSC	BAND		Cable STD	BAND		Cable HRC		Cable IRC
70	70				HHH	499.25	ULTRA	HHH	498.00	HHH	499.25
71	71				III	505.25	ULTRA	III	504.00	III	505.25
72	72				JJJ	511.25	ULTRA	JJJ	510.00	JJJ	511.25
73	73				KKK	517.25	ULTRA	KKK	516.00	KKK	517.25
74	74				LLL	523.25	ULTRA	LLL	522.00	LLL	523.25
75	75				MMM	529.25	ULTRA	MMM	528.00	MMM	529.25
76	76				NNN	535.25	ULTRA	NNN	534.00	NNN	535.25
77	77				000	541.25	ULTRA	000	540.00	000	541.25
78	78				PPP	547.25	ULTRA	PPP	546.00	PPP	547.25
79	79				79	553.25	ULTRA	79	552.00	79	553.25
80	80				80	559.25	ULTRA	80	558.00	80	559.25
81	81				81	565.25	ULTRA	81	564.00	81	565.25
82	82				82	571.25	ULTRA	82	570.00	82	571.25
83	83				83	577.25	ULTRA	83	576.00	83	577.25
84	84				84	583.25	ULTRA	84	582.00	84	583.25
85	85				85	589.25	ULTRA	85	588.00	85	589.25
86	86				86	595.25	ULTRA	86	594.00	86	595.25
87	87				87	601.25	ULTRA	87	600.00	87	601.25
88	88				88	607.25	ULTRA	88	606.00	88	607.25
89	89				89	613.25	ULTRA	89	612.00	89	613.25
90	90				90	619.25	ULTRA	90	618.00	90	619.25
91	91				91	625.25	ULTRA	91	624.00	91	625.25
92	92				92	631.25	ULTRA	92	630.00	92	631.25
93	93				93	637.25	ULTRA	93	636.00	93	637.25
94	94				94	643.25	ULTRA	94	642.00	94	643.25
95	95				A-5	91.25	FM	A-5	90.00	A-5	91.25
96	96				A-4	97.25	FM	A-4	96.00	A-4	97.25
97	97				A-3	103.25	FM	A-3	102.00	A-3	103.25
98	98				A-2	109.25	MID	A-2	108.00	A-2	109.25
99	99				A-1	115.25	MID	A-1	114.00	A-1	115.25
100	100				100	649.25	ULTRA	100	648.00	100	649.25
101	101				101	655.25	ULTRA	101	654.00	101	655.25
102	102				102	661.25	ULTRA	102	660.00	102	661.25
103	103				103	667.25	ULTRA	103	666.00	103	667.25
104	104				104	673.25	ULTRA	104	672.00	104	673.25
105	105				105	679.25	ULTRA	105	678.00	105	679.25
106	106				106	685.25	ULTRA	106	684.00	106	685.25
107	107				107	691.25	ULTRA	107	690.00	107	691.25
108	108				108	697.25	ULTRA	108	696.00	108	697.25
109	109				109	703.25	ULTRA	109	702.00	109	703.25
110	110				110	709.25	ULTRA	110	708.00	110	709.25
111	111				111	715.25	ULTRA	111	714.00	111	715.25
112	112				112	721.25	ULTRA	112	720.00	112	721.25
113	113				113	727.25	ULTRA	113	726.00	113	727.25
114	114				114	733.25	ULTRA	114	732.00	114	733.25
115	115				115	739.25	ULTRA	115	738.00	115	739.25
116	116				116	745.25	ULTRA	116	744.00	116	745.25
.	.				.	.	.	.	.	.	.
.	.				.	.	.	.	.	.	.
125	125				125	799.25	ULTRA	125	798.00	125	799.25
.	.				.	.	.	.	.	.	.

2-2. Specification Comparison to Old Models

Model	B450(LA22B450C4H)	Coral (LA22A450C1H)
Design		
Display Type	LCD TV	LCD TV
Built-in Tuner	O	O
Resolution	1366 x 768	1680 x 1050
LCD Panel	TFT LCD Panel 50Hz	TFT LCD Panel 50Hz
Screen Size	22”	22”
Picture ratio	16 : 9	16 : 9
Dimensions (W x H x D)	557.8 x 216 x 425.9_with stand 557.8 x 75 x 384.1_without stand	26.37 x 8.5 x 19.7 inches_with stand 26.37 x 2.96 x 17.4 inches_without stand
Weight	6.5kg_with stand 5.1kg_without stand	21.38 lbs (9.7 Kg)
Brightness	400 nit	300 nit
Contrast Ratio	800 : 1	1000 :1
Picture Enhacer	DNIe(Lola3)	DNIe (FBE3)
Equalizer	O	O
Auto Motion Plus 100Hz	X	X
Surround Sound	2 Way SRS TruSurround Dolby Digital	3 Way SRS TruSurround Dolby Digital
Speaker Output	3W + 3W	3W + 3W
Antenna	1	1

2-3. Accessories

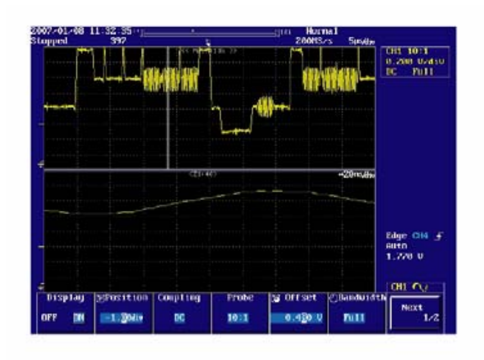
Product	Description	Code. No	Remark
	Remote Control & Batteries (AAA x 2)	BN59-00901A	Samsung Electronics Service center
	Power Cord	3903-000199	
	Cover-Bottom	BN63-04269A	
	Owner's Instructions	-	
	Cleaning Cloth	BN63-01798B	
	Warranty Card / Registration Card / Safety Guide Manual (Not available in all locations)	-	
	Stand Screw x 4	6002-001294	
	Stand	BN90-01510A	

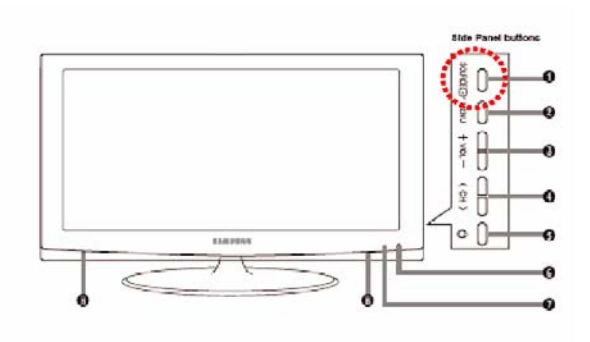
4.故障排除

4-1.故障排除

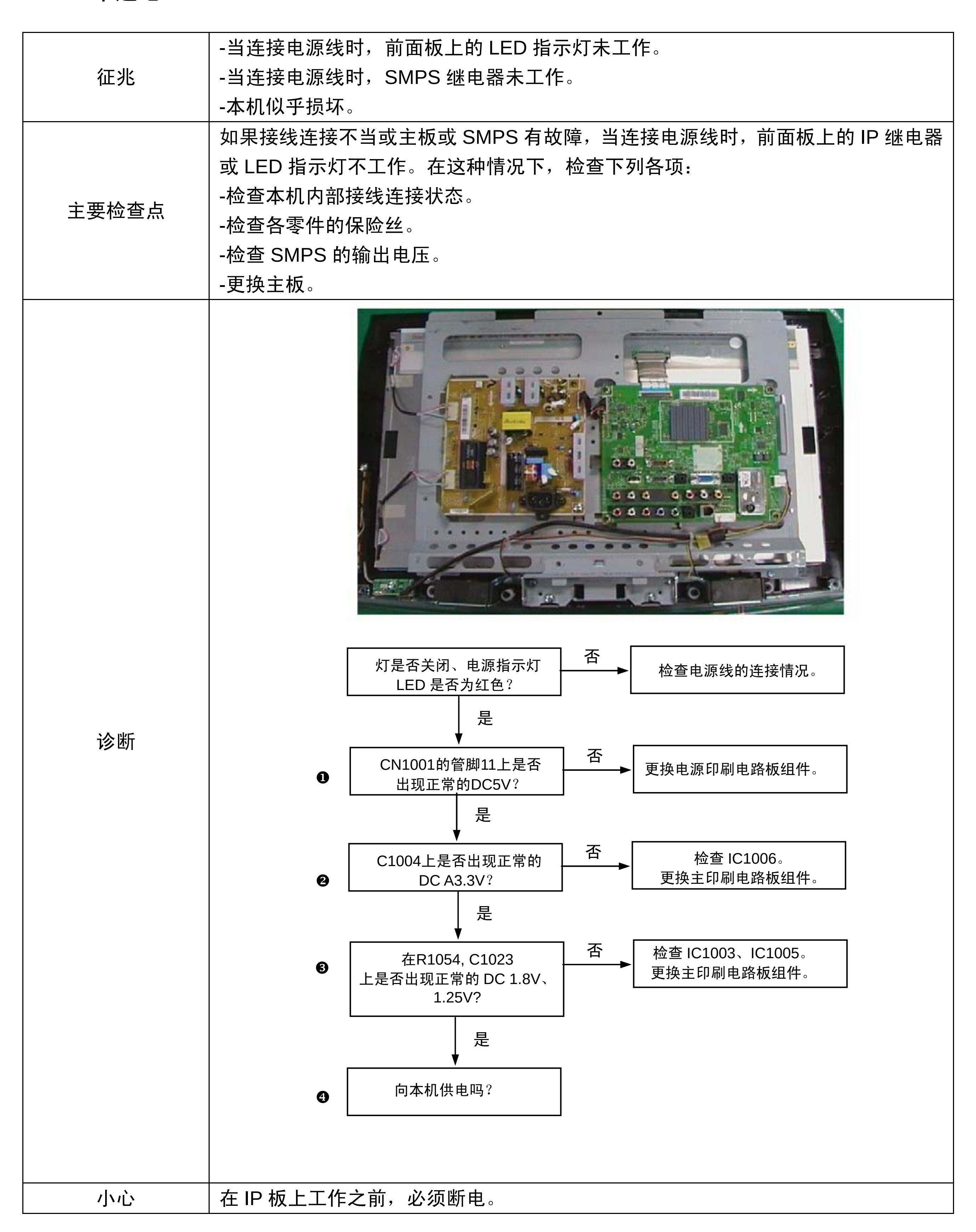
1. 首先检查各电缆连接情况。
   - 检查是否有烧坏或损坏的接线。
   - 检查接线是否断开，或连接处太松。
   - 检查是否依据连接图连接接线。

2. 检查主板的电源输入。
   检查 lola3 的内部图案，是否有一些画面干扰。
   工厂模式（信息-菜单-静音-开机_->高级菜单->MST69A84HQ->模式选择:关
   按下 Remocon 右按钮。
   如果 lola3 异常，更换主板

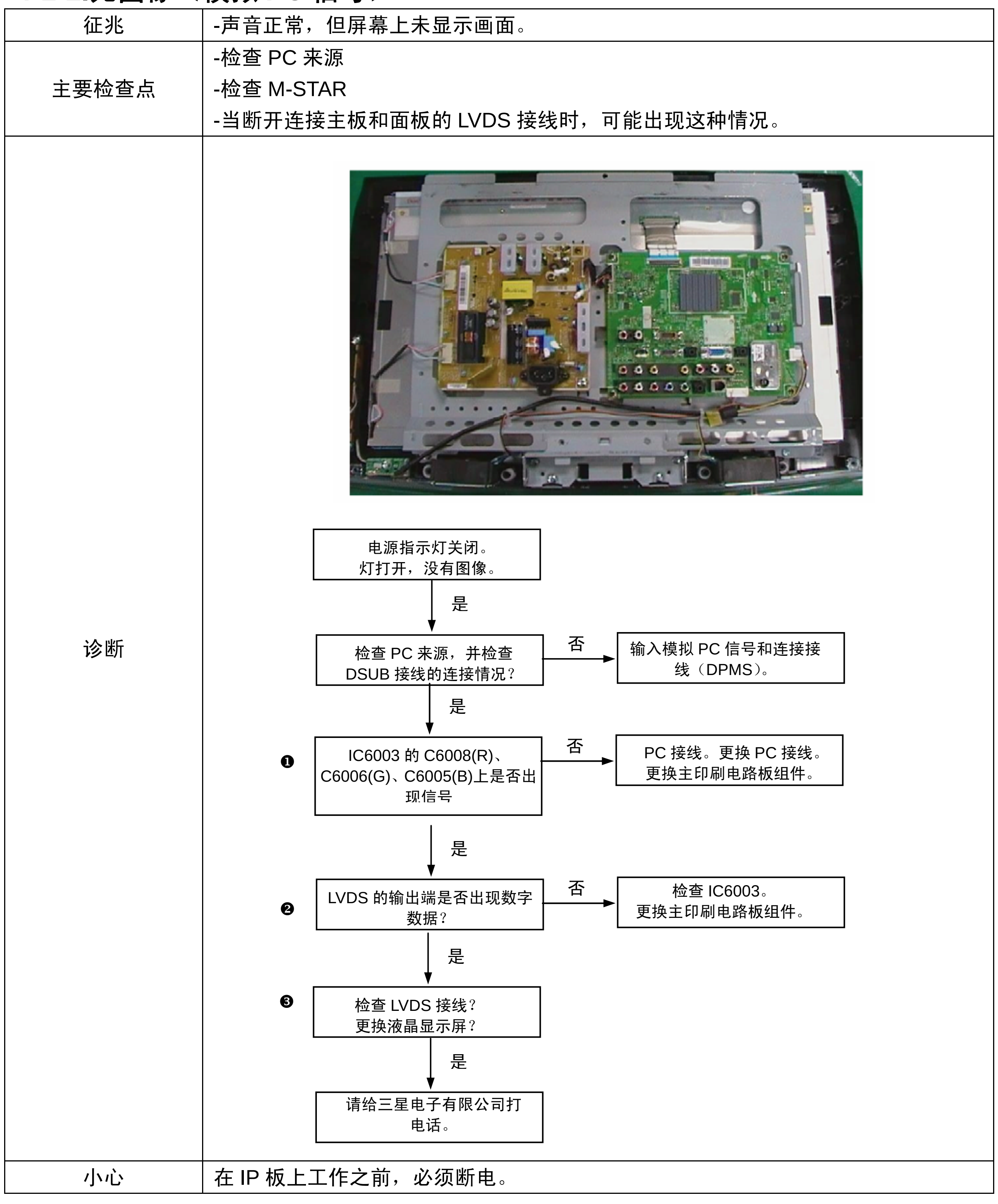




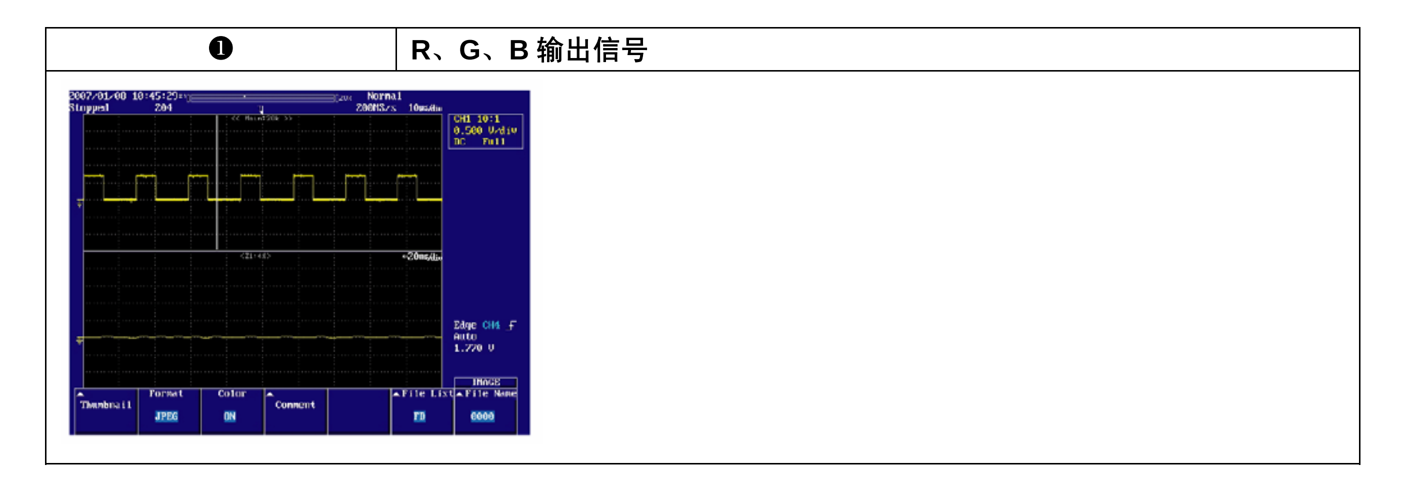
4-1-1.未通电

征兆	-当连接电源线时，前面板上的 LED 指示灯未工作。 -当连接电源线时，SMPS 继电器未工作。 -本机似乎损坏。
主要检查点	如果接线连接不当或主板或 SMPS 有故障，当连接电源线时，前面板上的 IP 继电器或 LED 指示灯不工作。在这种情况下，检查下列各项： -检查本机内部接线连接状态。 -检查各零件的保险丝。 -检查 SMPS 的输出电压。 -更换主板。
诊断	
小心	在 IP 板上工作之前，必须断电。

4-1-2.无图像（模拟 PC 信号）

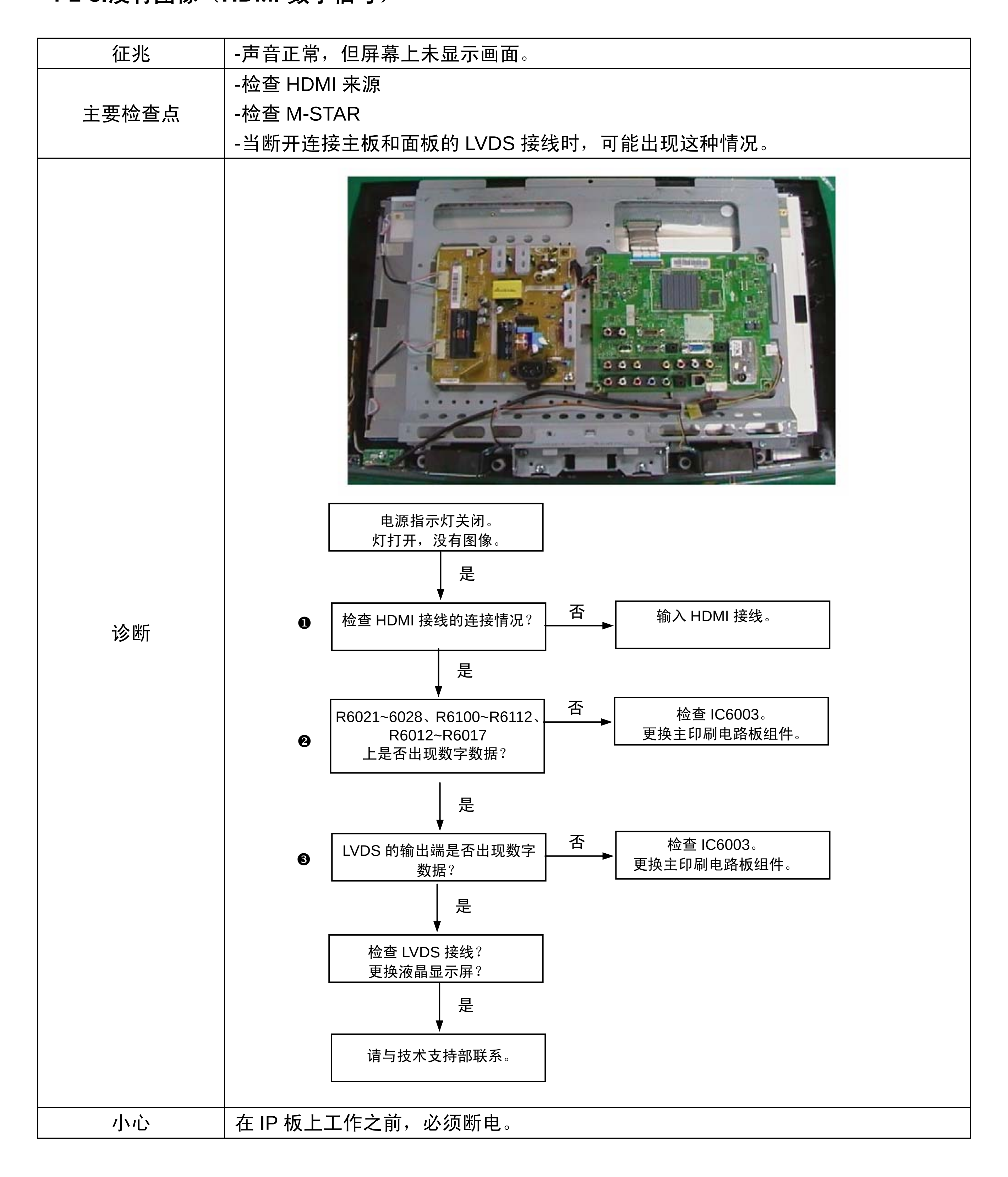
征兆	-声音正常，但屏幕上未显示画面。
主要检查点	-检查 PC 来源 -检查 M-STAR -当断开连接主板和面板的 LVDS 接线时，可能出现这种情况。
诊断	
小心	在 IP 板上工作之前，必须断电。

波形

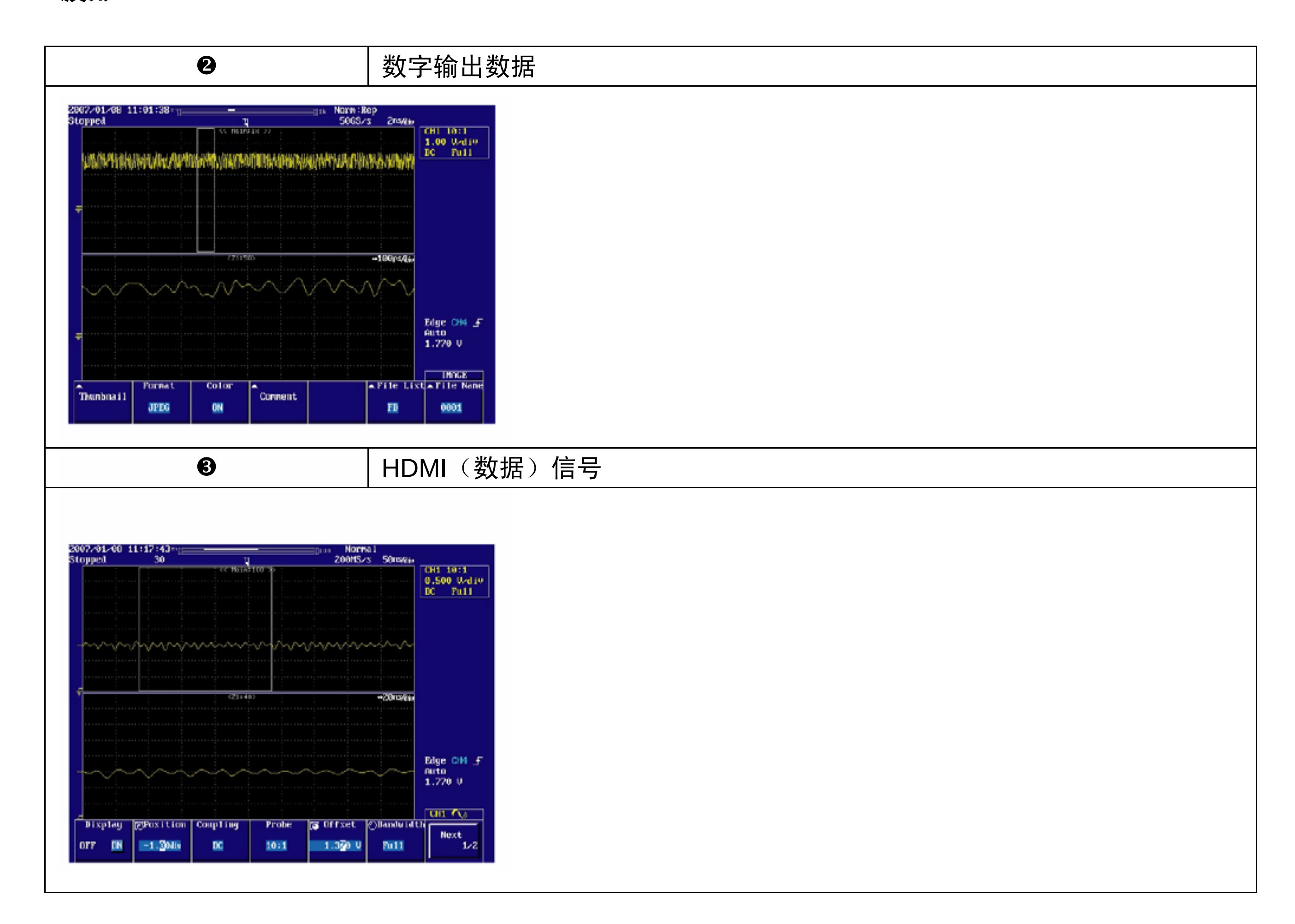
❶	R、G、B 输出信号
	

Normal
CH1 10:1
0.500 V/div
Edge
Auto
Thumbnail
Format
JPEG
Color
ON
Comment
File List
File Name

4-1-3.没有图像（HDMI-数字信号）

<table>
<tr><td>征兆</td><td>-声音正常，但屏幕上未显示画面。</td></tr>
<tr><td>主要检查点</td><td>-检查 HDMI 来源
-检查 M-STAR
-当断开连接主板和面板的 LVDS 接线时，可能出现这种情况。</td></tr>
<tr><td>诊断</td><td>
</td></tr>
<tr><td>小心</td><td>在 IP 板上工作之前，必须断电。</td></tr>
</table>

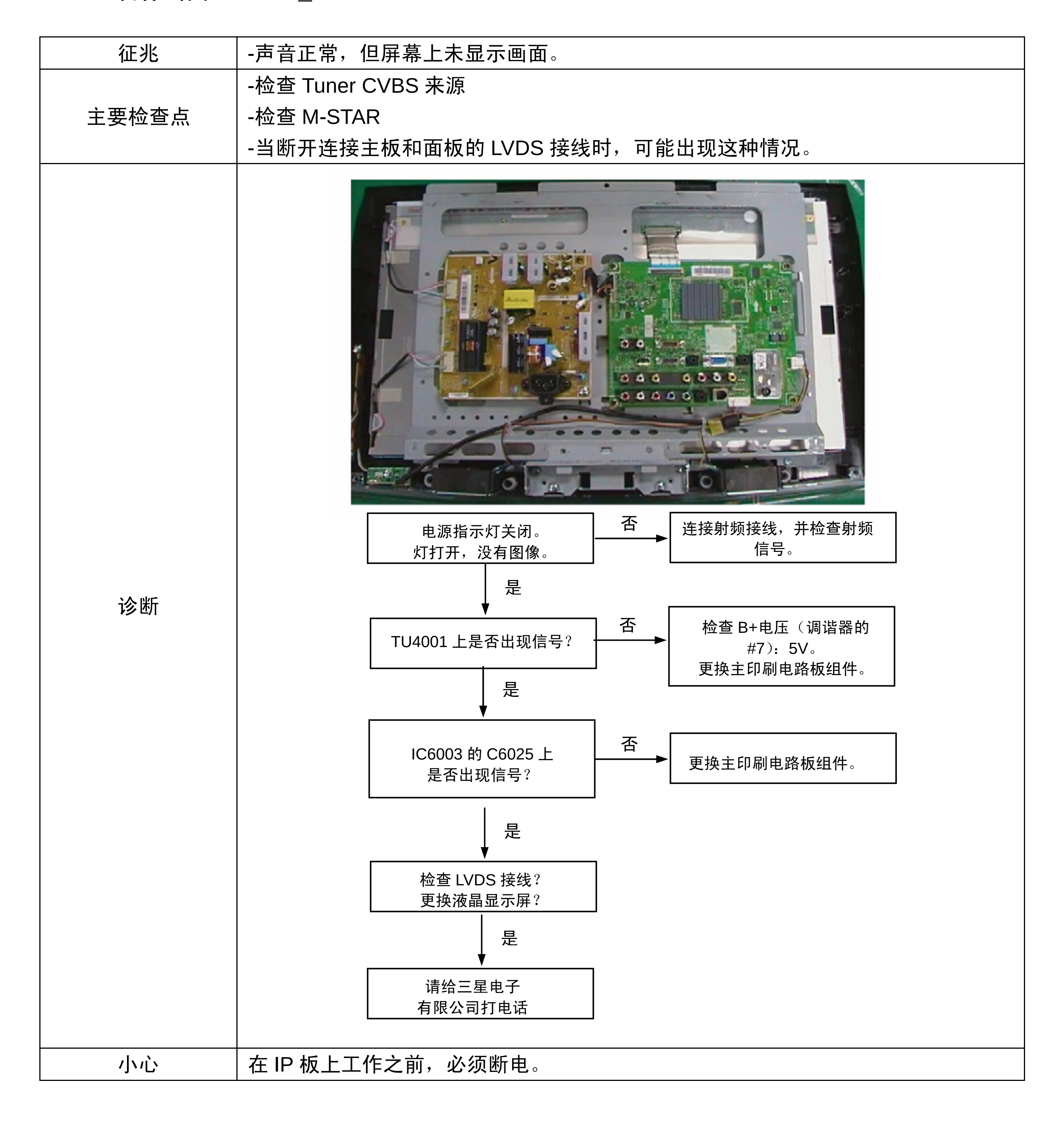
波形



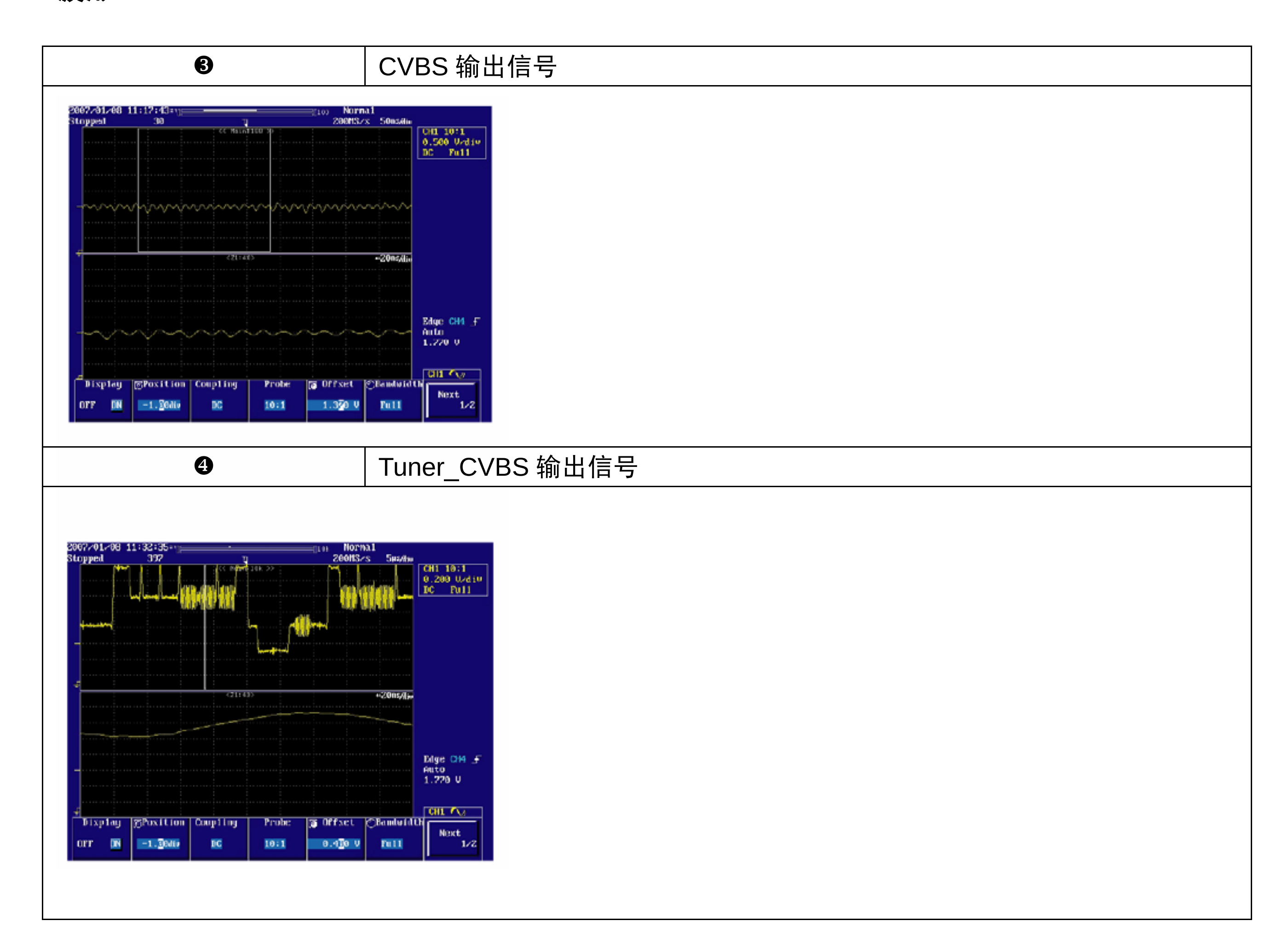
❷	数字输出数据

❸	HDMI（数据）信号

4-1-4.没有画面（Tuner_CVBS）

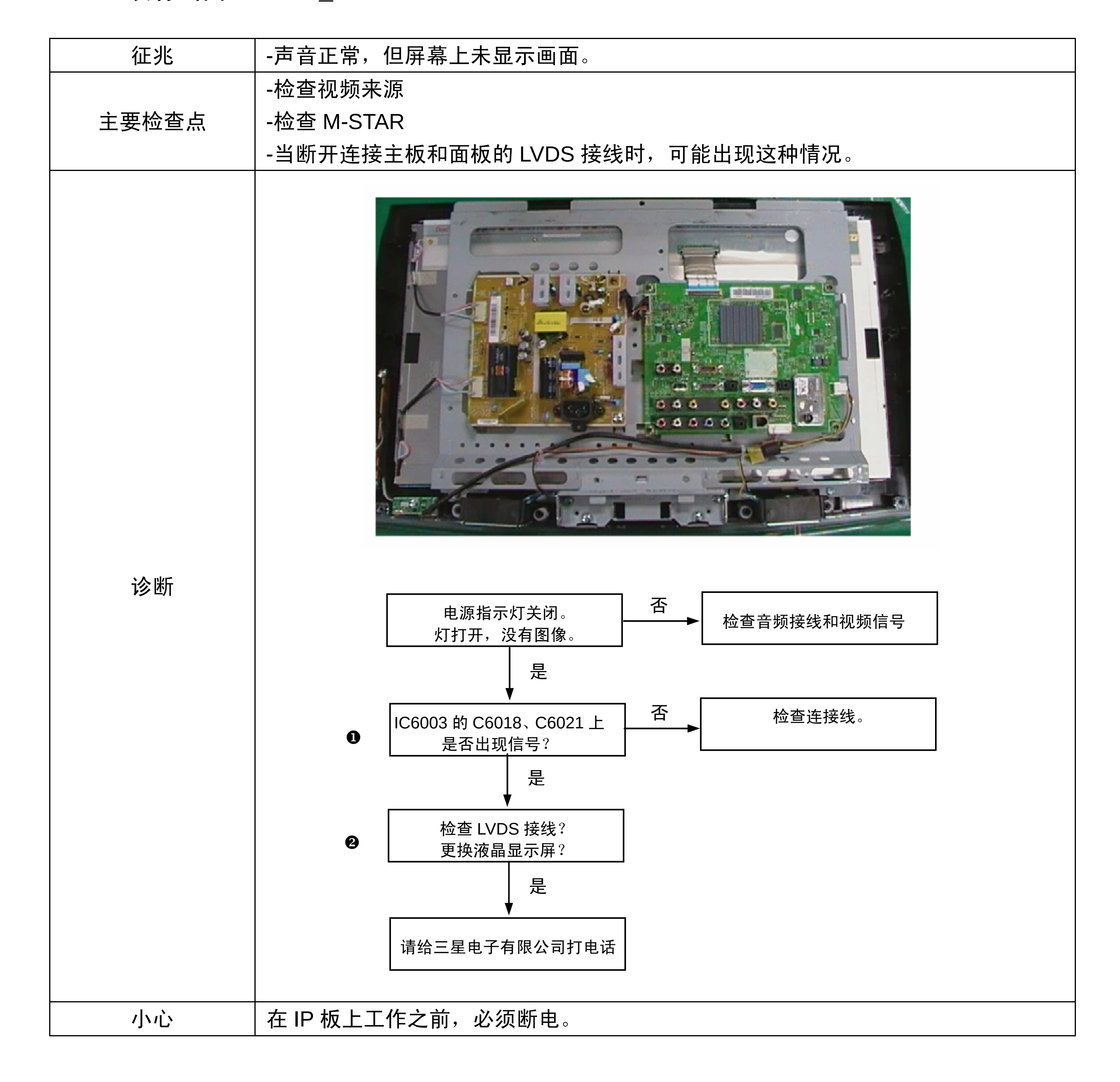
征兆	-声音正常，但屏幕上未显示画面。
主要检查点	-检查 Tuner CVBS 来源 -检查 M-STAR -当断开连接主板和面板的 LVDS 接线时，可能出现这种情况。
诊断	
小心	在 IP 板上工作之前，必须断电。

波形

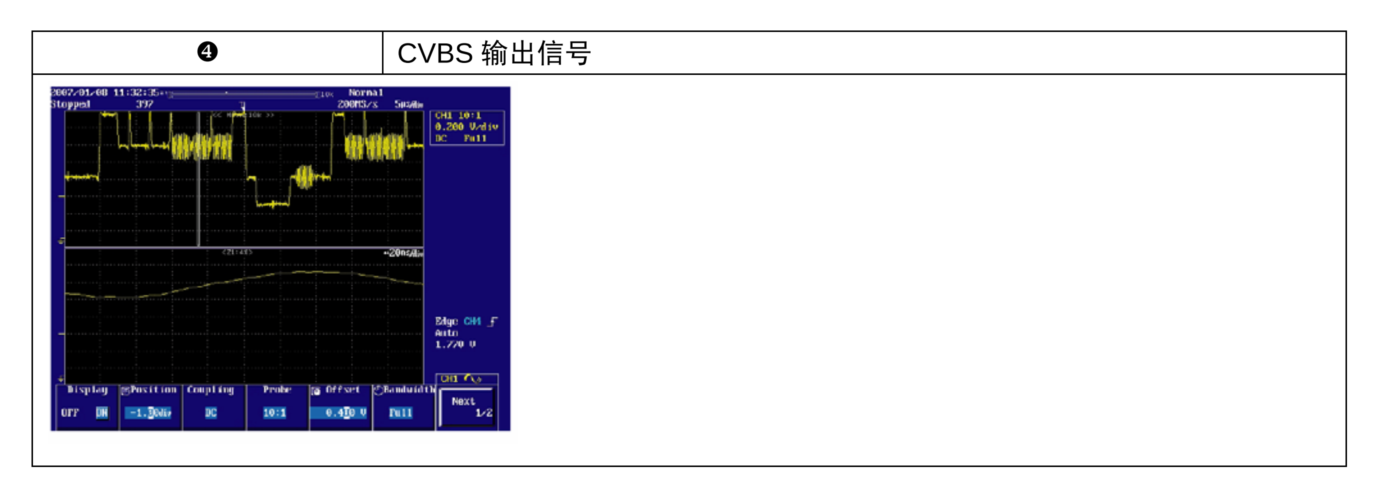


❸	CVBS 输出信号
❹	Tuner_CVBS 输出信号

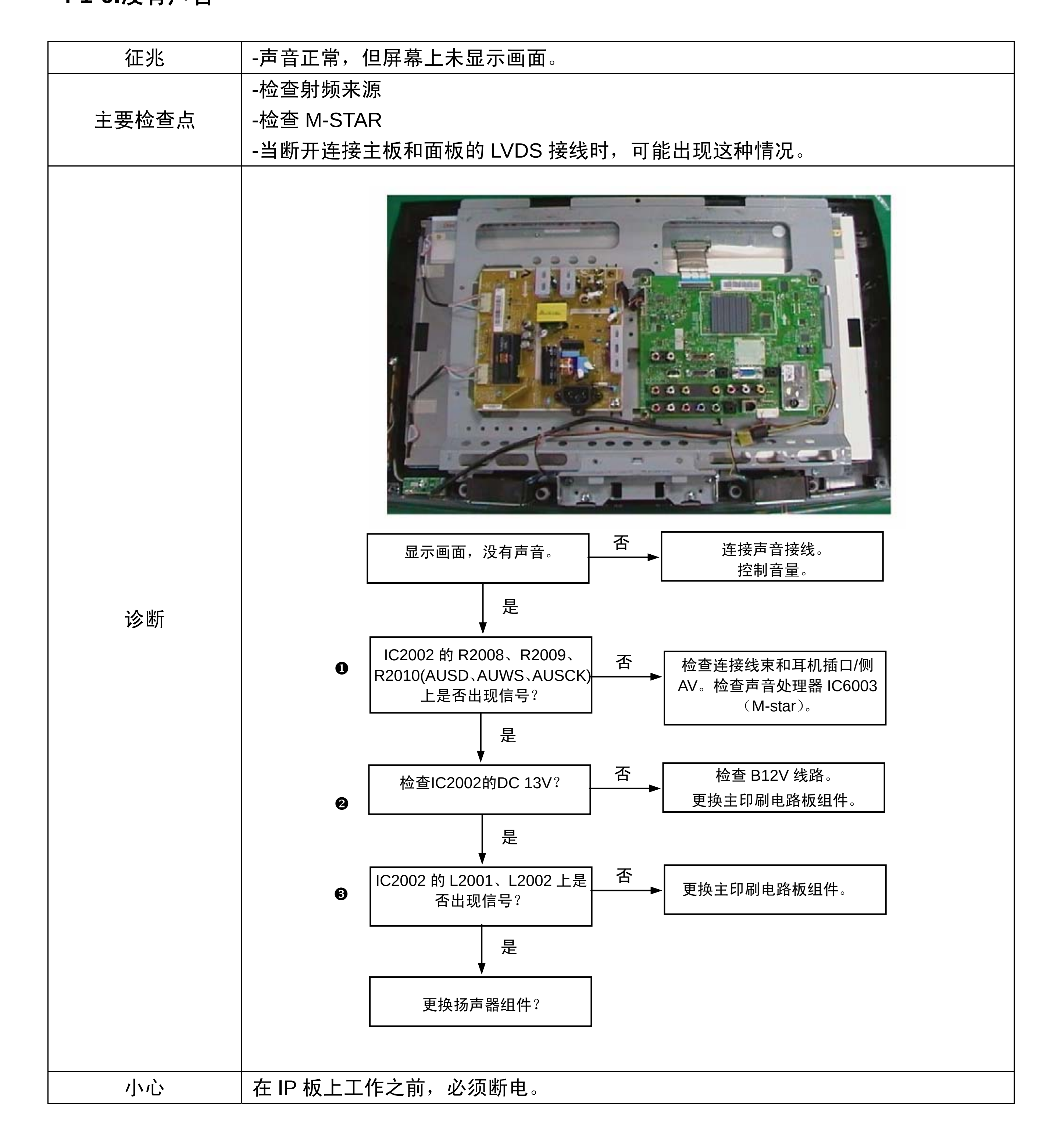
4-1-5.没有画面（Video_CVBS）

征兆	-声音正常，但屏幕上未显示画面。
主要检查点	-检查视频来源 -检查 M-STAR -当断开连接主板和面板的 LVDS 接线时，可能出现这种情况。
诊断	
小心	在 IP 板上工作之前，必须断电。

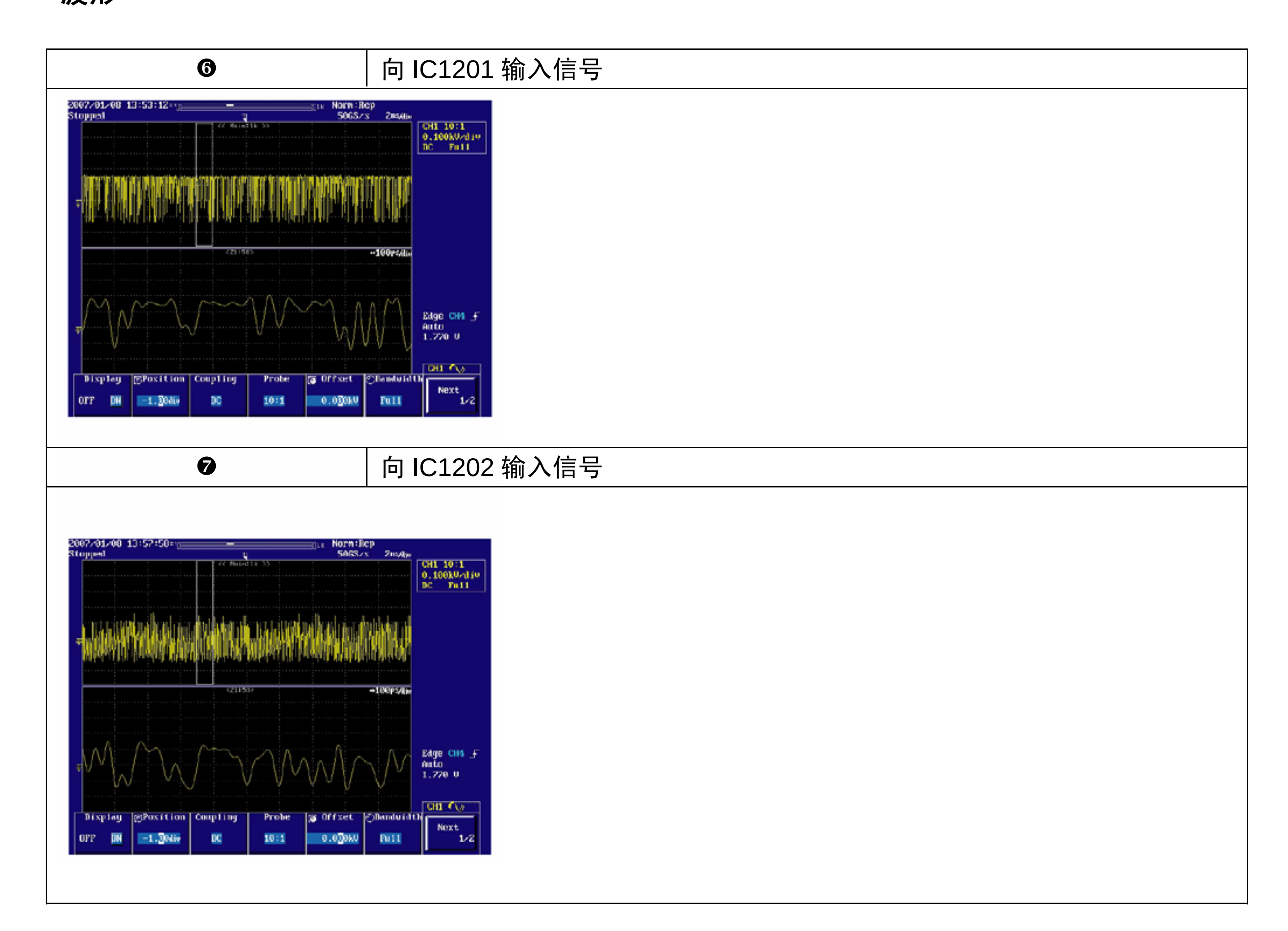
波形

❹	CVBS 输出信号
	

4-1-6.没有声音

征兆	-声音正常，但屏幕上未显示画面。
主要检查点	-检查射频来源 -检查 M-STAR -当断开连接主板和面板的 LVDS 接线时，可能出现这种情况。
诊断	
小心	在 IP 板上工作之前，必须断电。

波形



❻	向 IC1201 输入信号
❼	向 IC1202 输入信号

4-2.调整和调节

4-2-1 一般维修说明

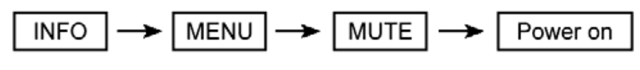
1. 通常，彩色液晶电视只需在安装时稍加调节。检查基本特性，如高度、水平和竖直同步。
2. 使用规定的测试设备或等效品。
3. 需要正确的匹配阻抗。
4. 避免过载。扫描振荡器发出的过多信号可能使电视的前端过载。当插入标志信号时，不可使标志信号发生器干扰测试结果。
5. 只可把电视连接到具有后盖铭牌上标定的电压和频率的交流电源上。
6. 当电视机处于开机状态时，不可试图连接或断开接线。必须保证在更换任何零件时拔下电源线。
7. 为了防止电击危险，应使用隔离变压器。

4-3.工厂模式调节

4-3-1 进入工厂模式

如欲进入“维修模式”，可按下列顺序按下遥控键：

-如果没有工厂遥控器



-如果有工厂遥控器



-在维修模式中，该按钮有效。

1. 遥控键：电源、向上箭头、向下箭头、向左箭头、
   向右箭头、菜单、确定、数字键（0~9）
2. 功能控制键：电源、CH+、CH-、VOL+、VOL-、
   菜单、电视/视频（确定）

4-3-2 显示屏检查

因如下所述进行不同的调节，所以必须检查显示屏制造商。
首先，检查标签额定值！

1）标签额定文件
  -液晶显示屏标记-
  A：ACER（AUO） S：SEC C：CMO

*如果未印刷，可以考虑 S（sec）显示屏标记。

4-3-3 工厂数据

■选项

Option	Factory Reset	OPTION	RANGE
	Type	32D_AG	22D_T,22I_T,22L_T,26D_AG, 26L_AG, 32L_AG, 32D_AG, 37L_AG, 40L_AG, 32A_AG_F, 32L_AG_F, 32D_AG_F, 32I_AG_F, 37L_AG_F, 37D_AG_F, 40A_AG_F, 40L_AG_F, 40D_AG_F, 46A_AG_F, 46L_AG_F, 46D_AG_F, 32A_AG_FF, 32L_AG_FF, 32D_AG_FF, 40A_AG_FF, 40L_AG_FF, 40D_AG_FF, 46A_AG_FF, 46D_AG_FF, 52A_AG_FF, 52L_AG_FF
	Model	B550_FBE	PB350, PB430, PB450, PB550, PB550_FBE, L_BASIC, LB350, LB360, LB360_22, LB450, LB450_22, LB460, LB480, LB480_22, LB530, LB550, B550_FBE, LB622, LB550_FBE_NM
	Tuner Select	SEMCO	SEMCO, XUGUANG
	DDR	Samsung	Samsung
	Ch Table	SUWON	SUWON, SESK, SHE, TTSEC, SEIN, SDMA, TSED, SAVINA, SIEL, TSE
	Local Set	East Asia	Vietnam, Philippines, China, India, Iran, Israel, Middle Asia, East Asia, Thailand, Africa
	P&P Language	English	English, China, French, Arabic, Persia, Hebrew, Russian
	PDP Group	P55A_50SP	P55A_50SP

■ADC/WB

ADC			
	AV Calibration	Success	Success/Failure
	Comp Calibration	Success	Success/Failure
	PC Calibration	Success	Success/Failure
	HDMI Calibration	Success	Success/Failure

ADC Target			
	1st_AV_Low	17	0 ~ 255
	1st_AV_High	234	0 ~ 255
	1st_AV_Delta	3	0 ~ 255
	1st_Comp_Low	17	0 ~ 255
	1st_Comp_High	234	0 ~ 255
	1st_Comp_Delta	3	0 ~ 255
	1st_PC_Low	1	0 ~ 255
	1st_PC_High	235	0 ~ 255
	1st_PC_Delta	3	0 ~ 255
	2nd_Low	2	0 ~ 255
	2nd_High	235	0 ~ 255
	2nd_Delta	1	0 ~ 255

ADC Result	1st_AV_Gain	132	0 ~ 255
	1st_AV_Offset	139	0 ~ 255
	1st_Comp_Gain	67	0 ~ 255
	1st_Comp_Gain_Cb	67	0 ~ 255
	1st_Comp_Gain_Cr	67	0 ~ 255
	1st_Comp_Offset	128	0 ~ 255
	1st_Comp_Offset_Cb	128	0 ~ 255
	1st_Comp_Offset_Cr	128	0 ~ 255
	1st_PC_R_Gain	85	0 ~ 255
	1st_PC_G_Gain	85	0 ~ 255
	1st_PC_B_Gain	86	0 ~ 255
	1st_PC_R_Offset	140	0 ~ 255
	1st_PC_G_Offset	142	0 ~ 255
	1st_PC_B_Offset	142	0 ~ 255
	2nd_R_Offset	57	0 ~ 255
	2nd_G_Offset	57	0 ~ 255
	2nd_B_Offset	57	0 ~ 255
	2nd_R_Gain	114	0 ~ 255
	2nd_G_Gain	114	0 ~ 255
	2nd_B_Gain		0 ~ 255

WB	Sub Brightness	128	0 ~ 255
	Red Offset	128	0 ~ 255
	Green Offset	128	0 ~ 255
	Blue Offset	128	0 ~ 255
	Sub Contrast	128	0 ~ 255
	Red Gain	128	0 ~ 255
	Green Gain	128	0 ~ 255
	Blue Gain	128	0 ~ 255

■控制

EDID	EDID Protect	On	On/Off
	EDID Type	L13_1920_1080	P12_1024_768, P13_1024_768, P12_1366_768, P13_1366_768, P12_1920_1080, P13_1920_1080, L12_1366_768, L13_1366_768, L12_1920_1080, L13_1920_1080
	EDID Write(0x4D,0)	L13_1920_1080 SUCCESS	P12_1024_768, P13_1024_768, P12_1366_768, P13_1366_768, P12_1920_1080, P13_1920_1080, L12_1366_768, L13_1366_768, L12_1920_1080, L13_1920_1080

Sub Option	Video Mute Time	8	0~99
	Inch	32"	19, 22, 23, 26, 27, 32, 37, 40, 42, 46, 50, 52, 57
	Dimm Type	EXT	EXT, INT, INT_NEG,EXT_POS, EXT_NEG
	D.Gamma	Off	Off, 0.85, 0.88, 0.90, 0.93, 0.95, 0.98, M1, M2, M3, M4
	Anynet+	On	On/Off
	TTX	On	On/Off
	TTX List	Flof	Flof/List
	TTX Group	Lang OSD	"Lang OSD, W Europe, E Europe, Russia, Greek, Turkey, Arab, Farsi, ArabHbrw"
	Carrier Mute	Off	On/Off
	High Devi	Off	On/Off
	Volume Curve	EA	EA, INDIA
	NT Conversion	Off	On/Off
	Auto Power	On	On/Off
	LVDS Format	DEFAULT	DEFAULT, VESA, JEIDA
	LNA Menu	Off	On/Off
	WatchDog	Off	On/Off
	Bus Stop		
	Panel Auto Setting		
	HotPlug	On	On/Off
	HotPlugCtrl	On	On/Off
	HotPlugDelay	12	0~63
	USB Upgrade	Off	On/Off
	Spread Spectrum		

Spread Spectrum	Spread Spectrum	On	On/Off
	Step 1	30	0~255
	Step 2	9	0~255
	Range 1	0	0~255
	Range 2	44	0~255
	FBE SSC	5	On/Off

■等离子选项

PDP Option	PDP Filter

■旅馆选项

Hotel Option	Hotel Mode	Off	On/Off

■商店选项

Shop Option	Shop Mode	Off	On/Off

■声音

SOUND	Detection Threshold			OPTION	RANGE
		Pilot Threshold	M2S Thr High	2	0~255
			M2S Thr Low	144	0~255
			S2M Thr High	1	0~255
			S2M Thr Low	176	0~255
		Carrier1 Threshold	Amp On Thr High	2	0~255
			Amp On Thr Low	0	0~255
			Amp Off Thr High	1	0~255
			Amp Off Thr Low	0	0~255
			NSR On Thr High	16	0~255
			NSR On Thr Low	0	0~255
			NSR Off Thr High	32	0~255
			NSR Off Thr Low	0	0~255
		Carrier2 Threshold	Amp On Thr High	2	0~255
			Amp On Thr Low	0	0~255
			Amp Off Thr High	1	0~255
			Amp Off Thr Low	0	0~255
			NSR On Thr High	13	0~255
			NSR On Thr Low	0	0~255
			NSR Off Thr High	24	0~255
			NSR Off Thr Low	0	0~255
	FM Prescale	23	0~40		
	AM Prescale	22	0~40		
	NICAM Prescale	33	0~40		
	FM M Prescale	23	0~40		
	SC1 Vol	16	0~40		
	SC2 Vol	16	0~40		
	Audio Delay Normal	8	0~255		
	Audio Delay Game	8	0~255		
	Num Of Check	10	0~60		
	Stereo Cnt	10	0~60		
	MP3 Level	0	0~60		
	Ext Volume Scale	2	0~100		
	R2E Scart2 Offset	2	0~40		
	NTP Master Volume	32	0~48		
	NTP PWM Modulation	254	0~255		
	NTP DRC Thresh1	55	0~127		
	NTP DRC Thresh2	80	0~127		
	NTP Speaker EQ	On	On/Off		

■**MST69A84HQ**

VDEC	SYNC_LVL	255	0~255
	HPLL_MD	0	0~1
	HPLL_SPD1	16	0~63
	HPLL_SPD2	32	0~255
	CBCRLP_MD	1	0~3
	YC_DLY	1	0~3
	IFCOMP	0	0~63
	SAT_ADJ	128	0~255
	YSEPFLT	7	0~7
	NOISE_LVL	0	0~255

IPC/MJC	Film Det Speed NT	80	0~255
	Film Det Speed PAL	80	0~255
	Motion Hist	5	0~7
	Motion History	3	0~7

Color Space	Red Sat	25	0~30
	Red Hue	64	0~127
	Green Sat	34	0~30
	Green Hue	127	0~127
	Blue Sat	37	0~30
	Blue Hue	80	0~127
	Cyan Sat	37	0~30
	Cyan Hue	80	0~127
	Magenta Sat	25	0~30
	Magenta Hue	64	0~127
	Yellow Sat	23	0~30
	Yellow Hue	64	0~127
	FWC Blue	21	0~30
	FWC Red	21	0~30

■FBE

FBE	Pattern Select		0~25
	B-Slope Gain		0~255
	B-Tilt Min		0~255
	B-Tilt Max		0~255
	LFuc-Basis		0~255
	HFuc-Basis		0~255
	Mean-Offset1		0~255
	Mean-Offset2		0~255
	Mean-Slope		0~255
	ACR Offset		0~127
	ACR Th1		0~255
	ACR Th2		0~255
	Skin Enable		0~255
	Skin Uv		0~255
	Mskin Uv		0~255
	Sub Color		0~255
	Msub Color		0~255

■白平衡电影

WB Movie	WB Moive	Off	On/Off
	Color Mode	Movie	Dynamic, Standard, Movie
	Color Tone	Cool	Cool, Normal, Warm1, Warm2
	Msub Brigh	128	0~255
	Msub Contr	128	0~255
	W1_RGAIN	138	0~255
	W1_BGAIN	109	0~255
	W1_ROFFS	128	0~255
	W1_BOFFS	128	0~255
	W2_RGAIN	144	0~255
	W2_BGAIN	84	0~255
	W2_ROFFS	128	0~255
	W2_BOFFS	128	0~255
	NO_RGAIN	134	0~255
	NO_BGAIN	109	0~255
	NO_ROFFS	128	0~255
	NO_BOFFS	128	0~255
	Movie_Contr	100	0~100
	Movie_Brigh	45	0~100
	Moive_Color	55	0~100
	Moive_Sharp	75	0~100
	Moive_Tint	50	0~100
	Mv BkLight	10	0~10
	M.Gamma	Off	-5~5
	M.S.Gamma	-3	-3~3

■EPA 标准

EPA Standard	Std Contr Std Bright Std Sharp Std Color Std Tint Std Backlight	95 45 40 50 50 7	0~100 0~100 0~100 0~100 0~100 0~10

■调节

Adjust	Dynamic Dimming Dynamic CE	Off	On/Off		
			Dynamic CE B Slope	Off Off	On/Off On/Off
	LNA Plus		RF Db 0 Level RF Db 1 Level RF Db 2 Level RF Db 3 Level	3 8 13 25	0~255 0~255 0~255 0~255
	Megazine LNA UART Select Debug Mode BackEndMute PixelShift Test Hp Detect ????? PDP FRC Visual Test	Off Off Normal Off Off High On Off	On/Off On/Off Normal, NONE, MSTAR, Run Time On/Off On/Off High/Low On/Off On/Off		

■YC 延迟

YC Delay			
	PAL BG	1	0~3
	PAL DK	1	0~3
	PAL I	1	0~3
	SECAM BG	4	0~7
	SECAM DK	4	0~7
	SECAM L	4	0~7
	NTSC 358	1	0~3
	NTSC 443	1	0~3
	AV PAL	0	0~3
	AV SECAM	4	0~7
	AV NT358	1	0~3
	AV NT443	1	0~3
	AV PAL60	1	0~3

■清晰度

Sharpness			
	H1 Gain	44	0~63
	H2 Gain	8	0~63
	H3Gain	8	0~63
	H4 Gain	8	0~63
	V1 Gain	48	0~63
	V2 Gain	8	0~63
	H Overshoot B1	16	0~255
	H Overshoot B2	16	0~255
	V Overshoot B5	16	0~255
	V Overshoot B8	16	0~255
	H Undershoot B1	16	0~255
	H Undershoot B2	16	0~255
	V Undershoot B5	16	0~255
	V Undershoot B8	16	0~255
	Coring TH2	1	0~15
	Coring TH1	1	0~15

■PE

PE	Skin X	0	0~11
	Skin Y	0	0~11
	B Slope	160	0~255
	DLC ML	96	0~255
	DLC_MH	160	0~255
	DLC_H	240	0~255
	Skin_SAT	0	0~15
	Skin_Hue	0	0~127
	M_Skin_Hue	0	
	M_Skin_X	0	0~11
	M_Skin_Y	0	0~11
	Mid_color_level	176	0~255
	M_Mid_color_level	176	0~255

■EEPROM 复位

EEPROM Reset	EEPROM Reset		OK
	NVR All Clear	Off	On/Off

■缺陷日志

Defect Log	LogList1
	LogList2
	LogList3

4-4. 旅馆选项数据设置

4-4-1.独立待机模式

如要进入：按照顺序按下 INFO → MENU → 0 → 1 → EXIT 。
如要从菜单中退出：关机并再次开机。

项目	初始值	说明
Hotel Mode	On	旅馆模式（独立待机）开/关
SI Vendor	Off	选择 SI Vendor
Power On Channel	1	在独立待机的旅馆模式下，电视将会切换到此特殊的信道
Power on source	TV	电视在初始开启时选择输入源
Power On Volume	10	在独立待机的旅馆模式下，电视将会被切换到此音量级
Min Volume	0	在独立待机的旅馆模式下，用户可设置为最小音量级
Max Volume	100	在独立待机的旅馆模式下，用户可设置为最大音量级
Panel Button Lock	Off	前部显示屏（本地键）运行开/关 -关：解锁所有显示屏键 -开：锁定所有显示屏键 -电源：除电源键外锁定所有显示屏键。
Picture Menu Lock	Off	启用或取消图片菜单
Video Mute Ch	1	如要选择的信道不显示（视频静音）例如（无线电频道），如果 1 为开启，频道 1 显示仅为黑色图案。
Video Mute Ch OnOff	Off	如要选择的信道不显示（视频静音）例如（无线电频道），如果 1 为开启，频道 1 显示仅为黑色图案。
Music Mode AV1	Off	如要在 AV 输入源的 MP3/音频播放器中获取音乐。 TV 声音仅在黑色图案时产生，无论是否有音频信号。
Music Mode AV2	Off	如要在 AV 输入源的 MP3/音频播放器中获取音乐。 TV 声音仅在黑色图案时产生，无论是否有音频信号。
Music Mode PC	Off	如要在 PC 输入源的 MP3/音频播放器中获取音乐。 TV 声音仅在黑色图案时产生，无论是否有音频信号。
Music Mode Comp	Off	如要在分量输入源的 MP3/音频播放器中获取音乐。 TV 声音仅在黑色图案时产生，无论是否有音频信号。
Welcome ON	Off	显示欢迎信息（关/开）
Welcome Message	-	编辑欢迎信息
Music Mode Backlight	On	在音乐模式下背景灯开/关选项可节能
Energy Saving	Off	此功能用来调节电视亮度，以便减少电源消耗。 -关：关闭节能功能 -低：设置电视到低节能模式。 -中：设置电视到中等节能模式。 -高：设置电视到高节能模式。
Sub AMP volume	13	在初始状态下的子功放音量级
Sub AMP mode	2	确定次功放运作模式。 -0：关闭次功放功能（PWM 关闭） -1：主音的控制决定次音的大小。次音由开机音量、最小音量及最大音量决定。
Audio Loop In	Off	音频循环识别或 H.P 识别选项
Clone Hotel Menu	StandAlone	在独立遥控时（独立待机/交互）按下旅馆键，在屏显示调节中的交互或独立待机旅馆 TV 选项。
Menu display	Off	（仅独立待机模式） 一开：（独立待机）显示主菜单 一关：（独立待机）不显示主菜单

项目	初始值	说明
Power On Option	LAST OPT	开机（交流电源开启）选项 －STN-BY：待机模式 －Power on：开机 －LAST OPT：最后的电源状态
Auto PC	Off	在待机模式，当 PC 源被连接到电视时，电视将自动开启并自动识别 PC 模式。
RJP AV	AV2	选择 RJP AV 源（AV1/AV2）
RJP Priority(AV)	1	如果优先设置插孔，当插孔被插入时会依照插孔的优先设置，相应的源会自动被设置
RJP Priority(PC)	2	如果优先设置插孔，当插孔被插入时会依照插孔的优先设置，相应的源会自动被设置
RJP Priority(HDMI)	3	如果优先设置插孔，当插孔被插入时会依照插孔的优先设置，相应的源会自动被设置
Local time	Manual	升级时钟数据的方法选项 -自动：从服务器获取时钟数据 -手动：手动时钟设置（没有 TTX 数据更新） -TTX：手动时钟设置（带有 TTX 数据更新）
Time Format	12hour	选择记时方式（12H/24H）
PMOLED Test	Off	测试 PMOLED（亮度和像素）
PMOLED Normal Dimming	3	PMOLED 亮度选项
PMOLED StandBy Dimming	2	PMOLED 待机亮度选项
Cloning : TV to USB	-	USB 克隆：TV→USB
Cloning : USB to TV	-	USB 克隆： USB→TV

4-4-2.交互模式

如要进入：在普通运作状态下，按照顺序按下 INFO → MENU → 0 → 1 → EXIT 。
如要从菜单中退出：关机并再次开机。（电源按钮与 SAMSUNG remocon 一同按下）
-你可以通过从 SAMSUNG 中克隆遥控器直接进入到旅馆 TV 菜单。
参看克隆遥控器

项目	初始值	说明
Hotel Mode	On	旅馆模式（独立待机）开/关
SI Vendor	Samsung	选择 SI Vendor
Power On Channel	1	在独立待机的旅馆模式下，电视将会切换到此特殊的信道
Power on source	TV	电视在初始开启时选择输入源
Power On Volume	10	在独立待机的旅馆模式下，电视将会被切换到此音量级
Min Volume	0	在独立待机的旅馆模式下，用户可设置为最小音量级
Max Volume	100	在独立待机的旅馆模式下，用户可设置为最大音量级
Panel Button Lock	Off	前部显示屏（本地键）运行开/关 -关：解锁所有显示屏键 -开：锁定所有显示屏键 -电源：除电源键外锁定所有显示屏键。
Music Mode AV1	Off	如要在 AV 输入源的 MP3/音频播放器中获取音乐。 TV 声音仅在黑色图案时产生，无论是否有音频信号。
Music Mode AV2	Off	如要在 AV 输入源的 MP3/音频播放器中获取音乐。 TV 声音仅在黑色图案时产生，无论是否有音频信号。
Music Mode PC	Off	如要在 PC 输入源的 MP3/音频播放器中获取音乐。 TV 声音仅在黑色图案时产生，无论是否有音频信号。
Music Mode Comp	Off	如要在分量输入源的 MP3/音频播放器中获取音乐。 TV 声音仅在黑色图案时产生，无论是否有音频信号。
Welcome ON	Off	显示欢迎信息（关/开）
Welcome Message	-	编辑欢迎信息
Music Mode Backlight	On	在音乐模式下背景灯开/关选项可节能
Energy Saving	Off	此功能用来调节电视亮度，以便减少电源消耗。 -关：关闭节能功能 -低：设置电视到低节能模式。 -中：设置电视到中等节能模式。 -高：设置电视到高节能模式。
Sub AMP volume	13	在初始状态下的次功放音量级
Sub AMP mode	2	确定次功放运作模式。 -0：关闭次功放功能（PWM 关闭） -1：主音的控制决定次音的大小。次音由开机音量、最小音量及最大音量决定。
Audio Loop In	Off	音频循环识别或 H.P 识别选项
Clone Hotel Menu	StandAlone	在独立遥控时（独立待机/交互）按下旅馆键，在屏显示调节中的交互或独立待机旅馆 TV 选项。
Menu display	Off	（仅独立待机模式） 一开：（独立待机）显示主菜单 一关：（独立待机）不显示主菜单

项目	初始值	说明
Active source select	Off	如要更改源列表，选择启用源。
Power On Option	LAST OPT	开机（交流电源开启）选项 －STN-BY：待机模式 －Power on：开机 －LAST OPT：最后的电源状态
Auto PC	Off	在待机模式，当 PC 源被连接到电视时，电视将自动开启并自动识别 PC 模式。
DC Power Output	5V	DC 电源输出插孔的端口控制（5V/12V）
RJP AV	AV2	选择 RJP AV 源（AV1/AV2）
RJP Priority(AV)	1	如果优先设置插孔，当插孔被插入时会依照插孔的优先设置，相应的源会自动被设置
RJP Priority(PC)	2	如果优先设置插孔，当插孔被插入时会依照插孔的优先设置，相应的源会自动被设置
RJP Priority(HDMI)	3	如果优先设置插孔，当插孔被插入时会依照插孔的优先设置，相应的源会自动被设置
Local time	Manual	升级时钟数据的方法选项 -自动：从服务器获取时钟数据 -手动：手动时钟设置（没有 TTX 数据更新） -TTX：手动时钟设置（带有 TTX 数据更新）
Time Format	12hour	选择记时方式（12H/24H）
PMOLED Test	Off	测试 PMOLED（亮度和像素）
PMOLED Normal Dimming	3	PMOLED 亮度选项
PMOLED StandBy Dimming	2	PMOLED 待机亮度选项
Cloning : TV to USB	-	USB 克隆：TV→USB
Cloning : USB to TV	-	USB 克隆： USB→TV

当交互模式开启时，你不能通过按下
Mute → 1 → 1 → 9 → Enter 按钮进入旅馆选项。
如要退出旅馆选项，关闭电源。

4-5.白平衡-校准

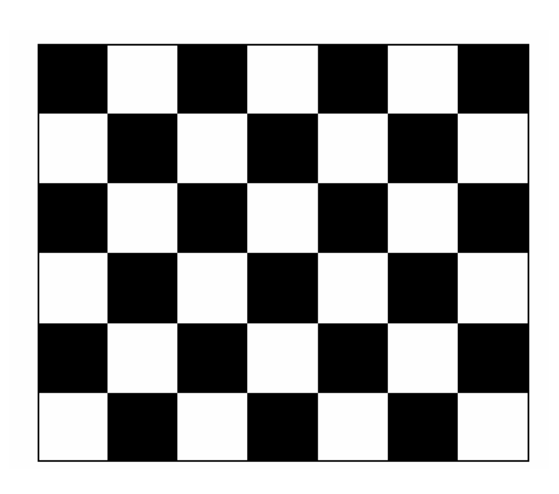
4-5-1 白平衡-校准

1. 校准 → AV 校准
Comp 校准
PC 校准
HDMI 校准

4-5-2 维修调节-在调节白平衡之前，必须使用方格图进行校准。

■颜色校准

调节规格
1. 来源：HDMI
2. 设置模式：1280*720@60Hz
3. 图案：图案#24（方格图）



（方格图）

4. 使用设备：CA210 和主 MSPG925 发生器

-只有与主设备的结果比较结果后，才可使用其他设备。

输入模式	校准	图案
CVBS 输入（型号#1）	在 NTSC 黑白图#24 中进行	方格
分量输入（型号#6）	在 720p 黑白图#24 中进行	方格
PC 模拟输入（型号#21）	在 VESA XGA（1024x768）黑白图#24 中进行	方格
HDMI 输入	在 720p 黑白图#24 中进行	方格

<表 1>

■颜色校准方法（AV）

1） 向 AV IN1 端口发送 NTSC 方格 (第 3 号)图信号。
2） 按下来源键，可切换到“AV1”模式。
3） 进入维修模式。
4） 选择“校准”菜单。
5） 选择“AV 校准”菜单。
6） 在“AV 校准关闭”状态下，按下“ ▶ ”键进行校准。
7） 校准完成时，返回上一级菜单。
8） 可以看到“AV 校准”状态从“失败”变为“成功”。

■颜色校准方法（分量）

1） 向分量 IN1 端口发送 720p 方格 (第 6 号)图信号。
2） 按下来源键，可切换到“分量 1”模式。
3） 进入维修模式。
4） 选择“校准”菜单。
5） 选择“Comp 校准”菜单。
6） 在“Comp 校准关闭”状态下，按下“ ▶ ”键进行校准。
7） 校准完成时，返回上一级菜单。
8） 可以看到“Comp 校准”状态从“失败”变为“成功”。

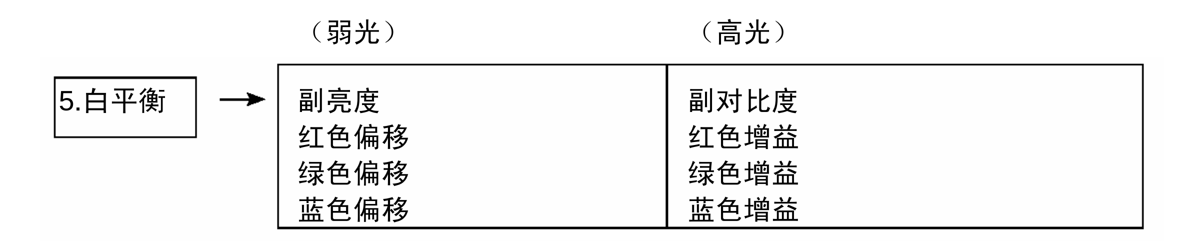
■颜色校准方法（PC）

1） 向 PC IN1 端口发送 VESA XGA (第 21 号)图信号。
2） 按下来源键，可切换到“PC”模式。
3） 进入维修模式。
4） 选择“校准”菜单。
5） 选择“PC 校准”菜单。
6） 在“PC 校准关闭”状态下，按下“▶”键进行校准。
7） 校准完成时，返回上一级菜单。
8） 可以看到“PC 校准”状态从“失败”变为“成功”。

■颜色校准方法（HDMI）

1） 向 HDM1/DVI IN 端口发送 720p 方格 (第 6 号)图信号。
2） 按下来源键，可切换到“HDMI1”模式。
3） 进入维修模式。
4） 选择“校准”菜单。
5） 选择“HDMI 校准”菜单。
6） 在“HDMI 校准关闭”状态下，按下“ ▶ ”键进行校准。
7） 校准完成时，返回上一级菜单。
8） 可以看到“HDMI 校准”状态从“失败”变为“成功”。

4-5-3 白平衡-调节



5.白平衡 →	（弱光）	（高光）
	副亮度 红色偏移 绿色偏移 蓝色偏移	副对比度 红色增益 绿色增益 蓝色增益

（白平衡调节状况，请参照下页）

4-6.维修信息

4-6-1 USB 下载方法

三星公司在将来可能会提供电视固件的升级。请联系三星访问中心1-800-SAMSUNG (726-7864)接收关于下载升级的信息并使用USB驱动器。升级将会通过连接USB驱动器到安置在电视背后的USB端口上。

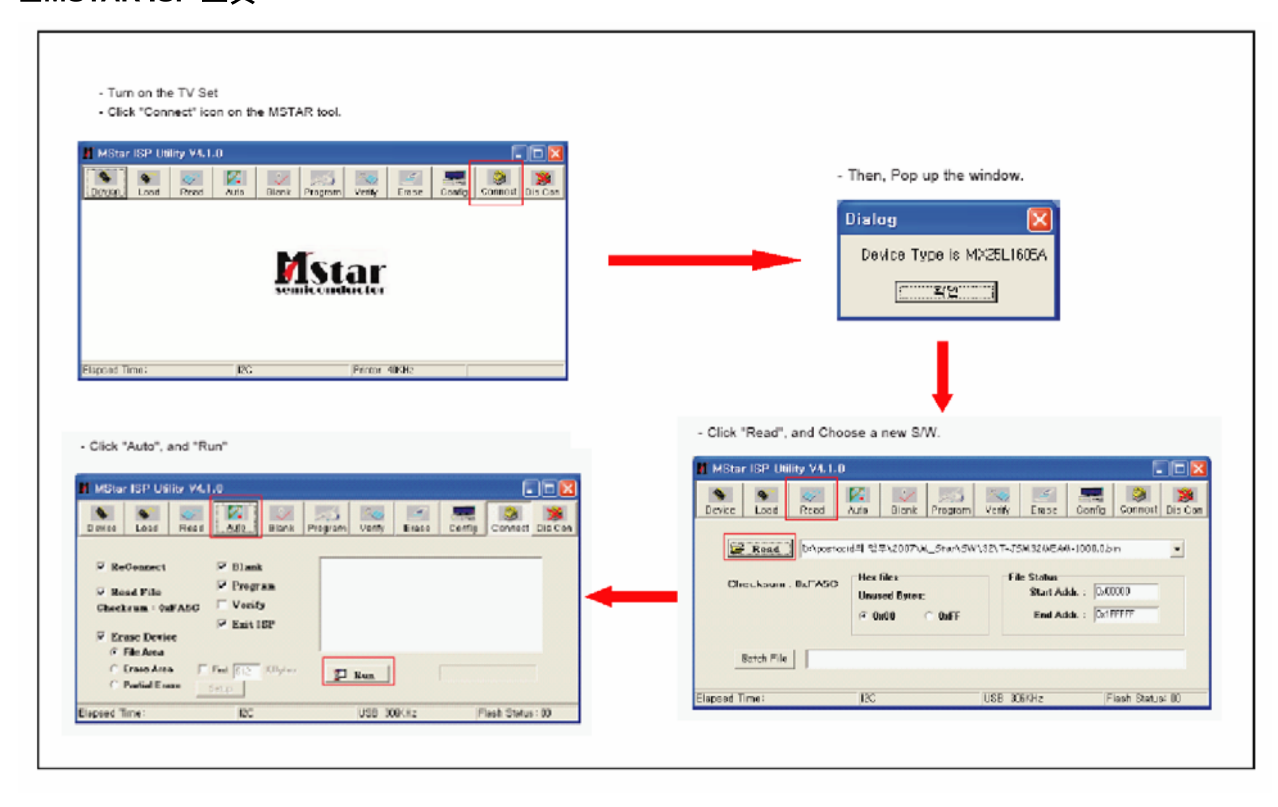
1. 插入包含固件升级的 USB 驱动器到电视侧部的媒体播放端口上。
2. 进入工厂模式。
   进入控制→子选项，然后更改“USB 升级”由关闭至开启。
3. 从机体上拉出电源线并重新插入。
4. 电源指示灯 LED 点亮。
   仅几秒钟的时间，灯的闪烁速度加快。
5. 机体会自动开启。
   可以进入到工厂模式看到升级后的软件版本。



请注意在进行升级的过程中，不要断开电源或取下 USB 驱动。在完成固件升级后，电视将会关闭。升级完成后请检查固件版本。软件升级后，视频和音频设置将会返回到默认（工厂）设置。我们推荐您写下您的设置，那样在升级后将会很容易复位。

4-6-2 软件升级（MSTAR ISP工具）

■MSTAR ISP 工具



4-6-3 旅馆选项

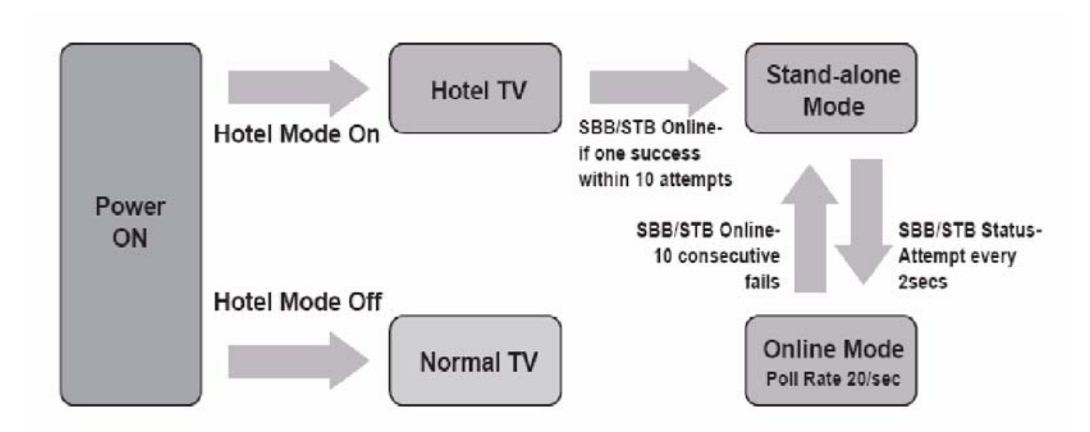
说明

本电视带有交互式功能，通过计算机控制系统与其它电视相连接，后部机箱(SBB/STB) 连接到电视，用于旅店及其它商业场所。

交互式：当电视在初始在开启时，会发送命令到可识别的SBB/STB，如果可识别的电视切换到在线模式，通过SBB/STB 完全控制，在线电视停止接收IR(三星遥控) 命令并根据端口协议执行。
独立待机：如果SBB/STB不能被识别，电视在受限运转中切换至独立待机模式。

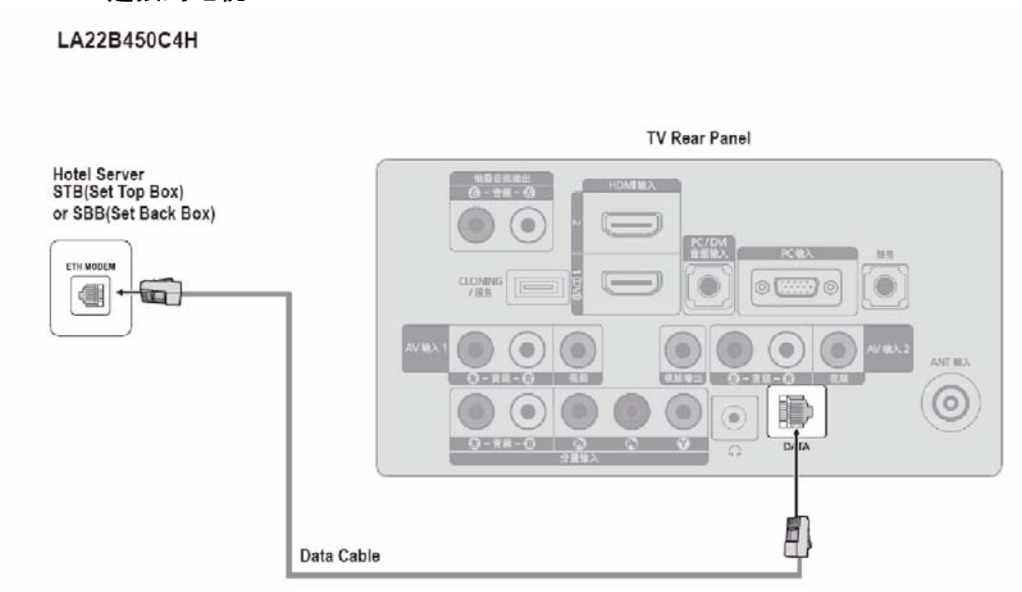
运转模式

当本电视 (在旅馆模式) 在SBB/STB时运行，会进入到在线或独立待机两种状态。在独立待机状态时，电视可作为旅馆电视，但是不能启用通信功能。
这样可预防客人通过断开SBB/STB蒙蔽本系统。



- 一些操作可能会受限，以防客人“蒙蔽”本电视系统。
- 无主菜单(交互模式) 或频道菜单，在主菜单中插入并播放(独立待机模式)
- 音量受限及屏板键锁定或解锁。

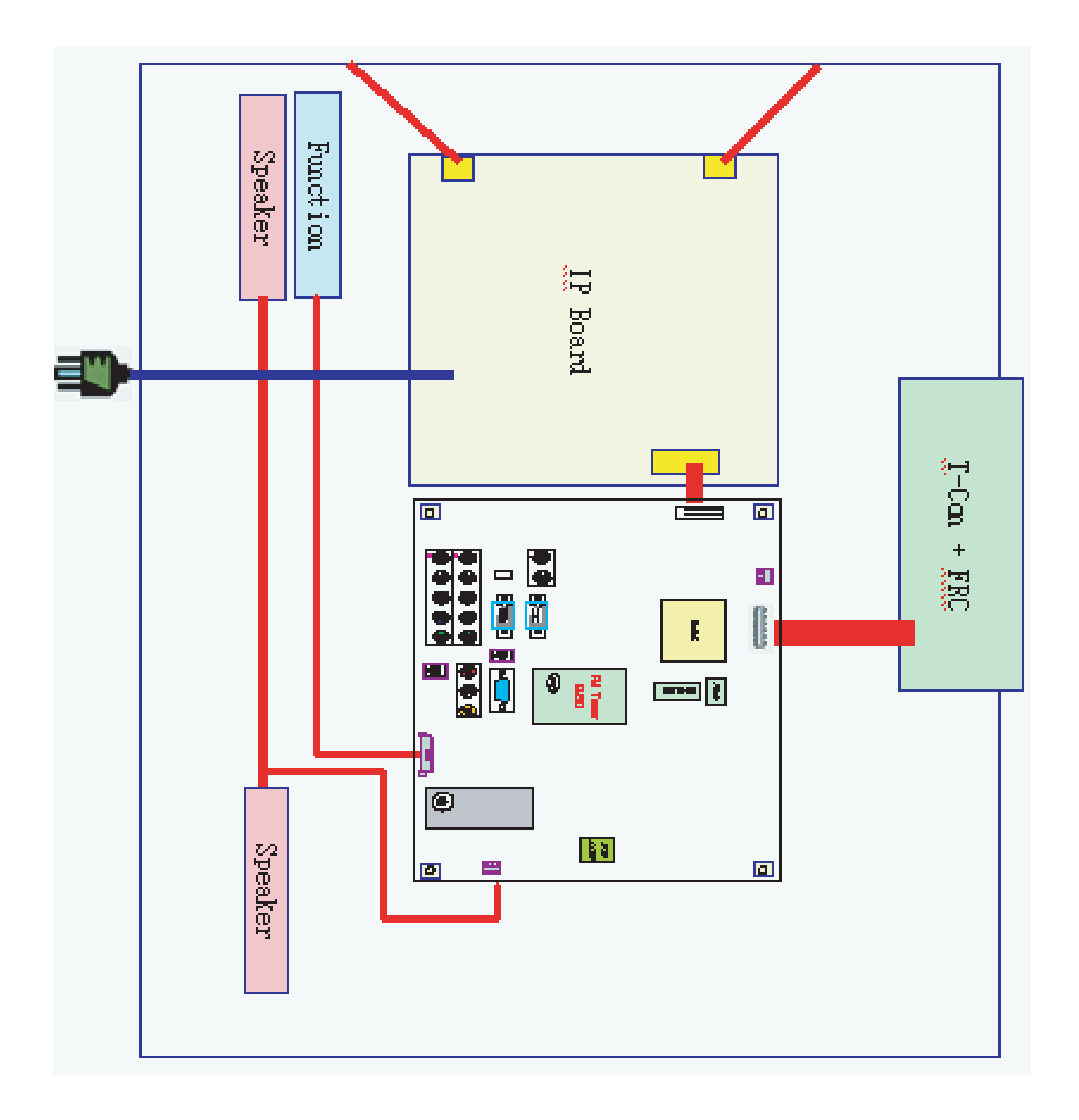
通过 STB（SBB）连接到电视



1. 使用数据线连接电视的[DATA]插口到 STB（SBB）的[ETH MODEM]插口。
   -使用数据通信。

6. Wiring Diagram

6-1. Wiring Diagram



AV1 (JA5005_CH)	
1	GND
2	COMP2_SR_IN
3	COMP2_SL_IN
4	GND
5	IDENT_COMP2
6	SC1_CVBS_IN
7	GND
8	AV_SC1_CVBS_OUT

COMP1 (JA5001)	
1	GND
2	IDENT_COMP1
3	COMP1_Y
4	GND
5	COMP1_Pb
6	COMP1_Pb
7	GND
8	COMP1_Pr
9	COMP1_Pr
10	GND
11	COMP1_SR_IN
12	COMP1_SL_IN
13	GND
14	COMP1_SL_IN
15	COMP1_SR_IN

Power and Dimming (CN1001)	
1	PWM/ANA DIMMING_OUT
2	A13V
3	GND
4	GND
5	GND
6	A5V
7	A5V
8	B3.3VD
9	INVERTER

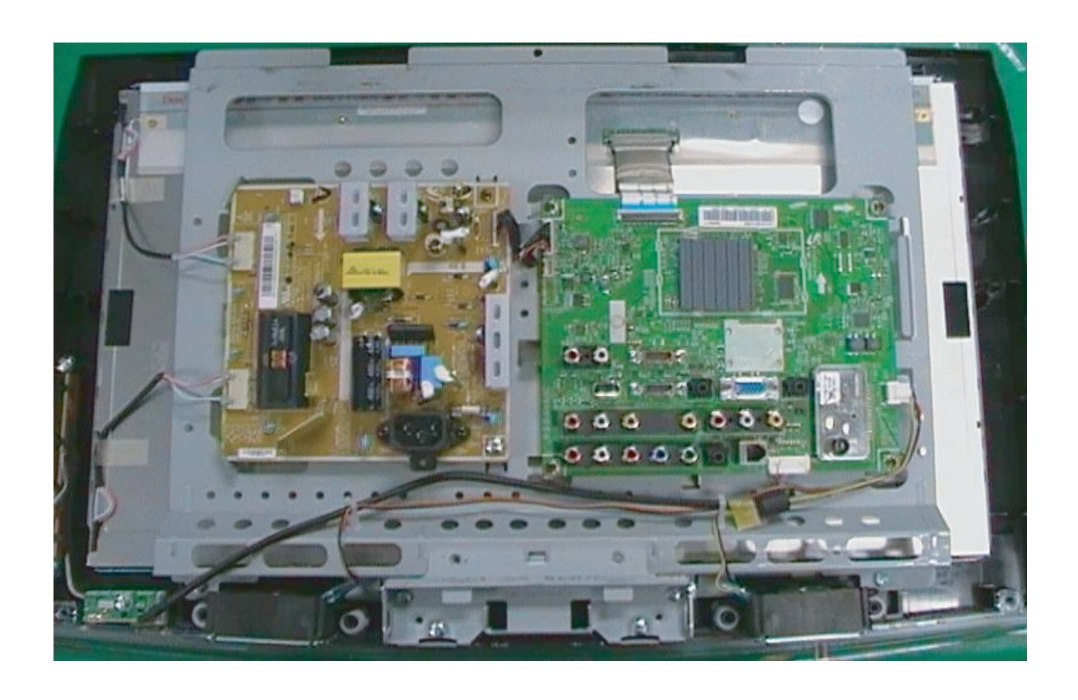
Audio PC (JA4001)	
1	GND
2	PC_SL_IN
3	PC_SR_IN
4	PC_SR_IN
5	PC_SR_IN
6	PC_SL_IN
7	PC_SL_IN

DVI SOUND INPUT (JA3007)	
1	GND
2	DVI_SR_IN
3	DVI_SL_IN
4	GND
5	DVI_SL_IN
6	DVI_SR_IN

HDMI1 Connection (JA3001)	
1	HDMI1_RX2+
2	GND
3	HDMI1_RX2-
4	HDMI1_RX1+
5	GND
6	HDMI1_RX1-
7	HDMI1_RX0+
8	GND
9	HDMI1_RX0-
10	HDMI1_RXCLK+
11	GND
12	HDMI1_RXCLK-
13	5.2V Zener
14	5.2V Zener
15	HDMI_DDC_SCL
16	HDMI_DDC_SDA
17	GND
18	HDMI_5V/Ident_HDMI
19	HDMI_5V/Ident_HDMI
20	GND
21	GND

HDMI2 Connection (JA3002)	
1	HDMI1_RX2+
2	GND
3	HDMI1_RX2-
4	HDMI1_RX1+
5	GND
6	HDMI1_RX1-
7	HDMI1_RX0+
8	GND
9	HDMI1_RX0-
10	HDMI1_RXCLK+
11	GND
12	HDMI1_RXCLK-
13	5.2V Zener
14	5.2V Zener
15	HDMI_DDC_SCL
16	HDMI_DDC_SDA
17	GND
18	HDMI_5V/Ident_HDMI
19	HDMI_5V/Ident_HDMI
20	GND
21	GND

6-2. Wiring Picture



6-3. Connector Functions

Connector	Functions
CN1001 <-> SMPS	Supply dimming power from SMPS to Main Board. * defective symptom : abnormal Picture
CN2001 <-> SPK	Connection Main Board and Speaker. * defective symptom : No picture
CN4001 <-> Function & IR	Connection Main Board and Function & IR Assy. * defective symptom : No picture, diable Power On/Off
CN8001 <-> T-CON	The LVDS signal transferred from Main Board to Panel. * defective symptom : No picture but normal sound

6-4. Cables

Use	(1) LVDS CONNECTOR	(2) ASSY-SPEAKER	(3) IR to FUNCTION
Code	BN96-02854F	BN96-06823E	BN96-07270B
Photo			